

Decommissioning Plan and Reclamation Cost Estimate for the North Bend Wind Project Hyde and Hughes County, South Dakota

August 2021

PRESENTED TO

North Bend Wind Project, LLC

PRESENTED BY

Tetra Tech



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1.0 INTRODUCTION

Tetra Tech was retained by North Bend Wind Project, LLC to prepare a decommissioning plan and cost analysis (Study) as part of an application for Energy Facility Permit from the South Dakota Public Utilities Commission (SDPUC) for the proposed North Bend Wind Project (Project). The scope of this Study is to review the Project details and develop a decommissioning plan and associated cost estimate for retiring the Project facilities at the end of its useful life.

2.0 PROJECT DESCRIPTION

The Project would be up to 200 megawatt (MW) and would be located entirely within Hyde and Hughes Counties in the Public Land Survey System townships of Butte, Chapelle, Harrold, Hollabird, Pleasant Valley, Pratt, and Webster, approximately 2 miles south of Harrold and 10 miles southwest of Highmore. The Project would be located on private and state held land within an area that encompasses approximately 46,391 acres (Project Area). The Project would utilize General Electric (GE) 2.82-MW wind turbine generators (WTGs). The current plan is to erect up to 71 GE 2.82-MW WTGs at the Project Area. Other major components for this Project include a Project substation, an interconnection switchyard, up to 200-foot 230-kilovolt (kV) interconnection transmission line, an aircraft detection lighting system (ADLS), one permanent meteorological tower, up to 32.2 miles of gravel access roads, and pad-mounted transformers at each WTG. The Project anticipates sharing the operations and maintenance (O&M) facility with the nearby Triple H Wind Project. These Project facilities are described in more detail below.

Decommissioning requirements are outlined under Section 9-106 of the Hyde County Zoning Ordinance and Section 2-117.F.14 of the Hughes County Zoning Ordinance. These ordinances specify “*decommissioning and site restoration includes dismantling and removal of all towers, turbine generators, transformers, overhead and underground cables, foundations, buildings and ancillary equipment to a depth of forty-two (42) inches; and removal of surface road material and restoration of the roads and turbine sites to substantially the same physical condition that existed immediately before construction of the LWECS...*”. The following sections address these requirements.

2.1 WIND TURBINE GENERATORS

The Project would consist of no more than 71 GE 2.82-127 WTGs. The 2.82-MW turbines include 89-meter (292 feet), conical, tubular, steel towers. The rotor diameter is 127 meters (416.7 feet). All turbine components will be fully removed as part of decommissioning.

2.2 WIND TURBINE FOUNDATIONS

Each WTG would be supported by a cylindrical concrete pedestal on top of a sloped, octagonal or circular concrete spread footing, as is commonly used throughout the wind industry. The cylindrical concrete pedestal is proposed to be approximately 18 to 20 feet in diameter and 4 feet tall. Approximately 1 foot of the pedestal will extend above-grade. The sloped, octagonal concrete base beneath the pedestal would extend downward to a depth of 10 feet. The base of the foundation is expected to have a bottom diameter of approximately 75 feet. The total foundation depth would be approximately 10 feet below grade.

2.3 ACCESS ROADS

Each wind turbine would have an access road to allow for vehicle access to facilitate inspections and maintenance of the turbines and associated equipment during operation. The access roads would be 16 feet wide and would consist of crushed gravel overlying compacted subgrade. The Study accounts for removal of approximately 32.2

miles of new, private access roads. All public and county roads are assumed to remain in place after decommissioning.

2.4 COLLECTION SYSTEM

Each WTG generates three-phase electrical power that is transformed to 34.5-kV with an oil-filled, medium-voltage, pad-mounted transformer located adjacent to the base of the turbine. All such transformers will be removed as part of decommissioning.

The Project would include an underground 34.5-kV electrical power collection system that collects the electrical power from the wind turbines and routes it to the substation. A total of 62.9 miles of underground cable lines would be buried to a minimum below-grade depth of at least 48 inches as specified in easement agreements. Decommissioning requirements for Hyde and Hughes counties require any equipment, including cables (including both power and communication cabling) buried at a below-grade depth of less than 42 inches be removed when the Project is decommissioned in accordance with their ordinance requirements. However, all cables buried at or deeper than 48 inches below grade would be left in place when the Project is decommissioned, in accordance with easement agreements.

2.5 PROJECT SUBSTATION

Power from each wind turbine would be delivered via underground power collection cabling to an on-site Project substation, where it would be stepped up from 34.5-kV to 230-kV via a main power transformer. The plans also include two high-voltage circuit breakers, one dead-end structure, substation steel structures, medium-voltage circuit breakers, switching devices, perimeter fencing, auxiliary equipment, and a control enclosure. All above-grade equipment within the perimeter fence of the substation, equipment foundations to a below-grade depth of 48 inches, as well as underground cables to a depth of 48 inches, would be removed as part of decommissioning.

The interconnection switchyard station would be owned and operated by Western Area Power Administration as part of the Project. This switchyard is expected to include up to three 230-kV circuit breakers, three dead-end structures, substation steel structures, disconnect breakers, disconnect switches, bus conductors, auxiliary equipment, perimeter fencing, and a control enclosure, and is assumed to be decommissioned as a part of a separate project.

2.6 O&M BUILDING

While it is anticipated that some components of the nearby Triple H Wind Project O&M facility (i.e. storage, parking, fencing, etc.) will be shared with the Project, a separate building will be constructed to accommodate the needs of the North Bend Wind Project and their operations staff. This building is expected to be a pre-fabricated metal building built on a concrete slab-on-grade foundation with a footprint of approximately 5,000 square feet. This dedicated building has been included in this decommissioning plan and cost estimate.

2.7 AIRCRAFT DETECTION LIGHTING SYSTEM

The Project is planning to implement an aircraft detection lighting system (ADLS) as an additional mitigative measure available for wind turbine lighting. While an existing ADLS facility at the Triple H Wind Project could cover a portion of the North Bend Wind site, it was determined that a separate, standalone ADLS facility would be needed to order to provide sufficient coverage for the entire Project. ENGIE is working with the manufacturer on determining an appropriate location for the facility, which will require FAA approval.

The ADLS system consists of a tower up to 200 feet tall equipped with an 18-foot antenna mounted on the top of the tower. The size of the tower and its foundation is dependent on the surface location where it is proposed and the topography in proximity. In addition, an outdoor cabinet will be located at the base of the tower that contains

equipment associated with the system. Underground cabling will be installed from the ADLS location to its associated turbine at approximately 48 inches below grade. The ADLS unit is assumed to be decommissioned and removed as part of decommissioning.

2.8 METEOROLOGICAL TOWERS

One permanent meteorological tower would be installed as part of this Project. The tower would be a lattice-type tower that typically ranges in height from 80 to 90 meters and is supported by guy wires. The tower would be fully removed as part of decommissioning, including its supporting foundations down to 48 inches below grade.

3.0 ANTICIPATED LIFE OF NORTH BEND WIND PROJECT

Megawatt-scale wind turbine generators available on the market today have a life expectancy of more than 25 years. The tubular steel towers supporting the generators are robust and with basic routine maintenance would serve many years beyond the life expectancy of the generators.

As the Project WTGs approach the end of their expected life, technological advances should make available more efficient and cost-effective generators that would economically drive the replacement of the existing generators and thus prolong the economic life of the Project to an expected 30 years. Once the Project has met its design life, it will need to be decommissioned. The following sections provide a description of the decommissioning work and the estimated costs associated with that work.

4.0 DECOMMISSIONING PROCESS DESCRIPTION

All decommissioning and restoration activities will adhere to the requirements of appropriate governing authorities, and will be in accordance with all applicable federal, state, and local permits.

The decommissioning and restoration process comprises removal of all above-ground structures; removal of below-ground structures to a depth of 48 inches; restoration of topsoil, revegetation, and seeding; and a 2-year monitoring and remediation period.

Project-related above-ground structures include the WTGs, step-up (pad-mounted) transformers, meteorological tower, overhead electrical transmission lines, ADLS unit, and the substation. Below-ground structures include WTG foundations, collection system conduits/cable, foundations for the meteorological tower, ADLS and substation foundations, and drainage structures. The proposed high-voltage transmission line (230-kV line) and all facilities interior to the Project would be removed as a part of decommissioning. The Project O&M building would be shared with the nearby Triple H Wind Project and has been included in their decommissioning plan. Therefore, the Project O&M building is not included in this decommissioning plan and cost estimate.

It is assumed that the Project would incur costs for removal and disposal of the WTGs, wind turbine foundations, and other Project facilities, as well as costs for the restoration of the Project Area. Above-grade steel, aluminum, and copper equipment, however, is expected to have significant scrap value to a salvage contractor. All recyclable materials will be recycled to the extent possible, while all other non-recyclable waste materials will be disposed of in accordance with state and federal law.

The process of removing structures involves evaluating and categorizing all components and materials into categories of recondition and reuse, salvage, recycling, and disposal. In the interest of increased efficiency and minimal transportation impacts, components and material may be stored on-site in a pre-approved location until the bulk of similar components or materials are ready for transport. The components and material will be transported to the appropriate facilities for reconditioning (if possible), salvage, recycling, or disposal.

4.1 WTG REMOVALS

During the decommissioning process, access roads to turbines may be widened temporarily to sufficient width to accommodate movement of appropriately sized cranes or other machinery required for the disassembly and removal of the turbines. High-value components will be stripped. The remaining material will be reduced to shippable dimension and transported offsite for proper disposal. Control cabinets, electronic components, and internal cables will be removed. The blades, hub, and nacelle will be lowered to the ground for disassembly. The tower sections will also be lowered to the ground where they will be further disassembled into transportable sections. The blades, hub, nacelle, and tower sections will either be transported whole for reconditioning and reuse or disassembled into salvageable, recyclable, or disposable components. Each WTG area will be thoroughly cleaned and all debris removed.

Once removed, the wind turbine blades will be cut into manageably-sized sections, loaded onto a trailer, and hauled to a local landfill for disposal; the wind turbine blades are primarily constructed from a composite material that is assumed to have no salvage value at the time of decommissioning.

4.2 TURBINE ACCESS ROADS

All crushed rock surfacing will be removed from the Project's access roads. The removed crushed rock will be loaded into dump trucks and hauled offsite for disposal. Following the removal of crushed rock surfacing, the compacted subgrade will be de-compacted and a layer of topsoil will be added to replace the removed rock. The areas where crushed rock has been removed will be fine graded to provide suitable drainage. In right-of-way and non-agricultural areas, the ground will be seeded to prevent erosion.

4.3 WTG FOUNDATION REMOVAL

Topsoil will be removed from an area surrounding the foundation and stored for later replacement. Turbine foundations will be excavated to a depth sufficient to remove all anchor bolts, rebar, conduits, cable, and concrete to a depth of 48 inches below grade. After removal of all noted foundation materials, the hole will be filled with clean subgrade material of quality comparable to the immediate surrounding area. The subgrade material will be compacted to a density similar to surrounding subgrade material. All unexcavated areas compacted by equipment used in decommissioning shall be de-compacted in a manner to adequately restore the topsoil and subgrade material to the proper density consistent and compatible with the surrounding area. These areas will be thoroughly cleaned and all debris removed.

4.4 O&M BUILDING

The dedicated O&M building will be demolished/removed and disposed offsite as a part of the decommissioning plan.

4.5 UNDERGROUND ELECTRICAL COLLECTION SYSTEM

The cables and conduits will be removed to a depth of at least 48 inches below ground surface (bgs). All cable and conduit buried greater than 48 inches bgs will be left in place and abandoned. They contain no materials known to be harmful to the environment and will not interfere with future agricultural-related use of the area.

4.6 OVERHEAD TRANSMISSION LINE

The conductors will be removed and stored in a pre-approved location. Switches and other hardware will be removed and delivered to a processing company for recycling. The supporting transmission line structures will be removed and the concrete foundations removed to a depth of 48 inches bgs. The steel transmission structure

components will be stored in a pre-approved location. Stored conductors and other components will be later removed and transported to appropriate facilities for salvage or disposal. The area will be thoroughly cleaned and all debris removed.

4.7 SUBSTATION

Disassembly of the substation and associated switchyard will be completed and all material/equipment removed from the site. Steel, conductors, switches, transformers, etc. will be reconditioned and reused, sold as scrap, recycled, or disposed of appropriately depending on market value. Foundations and underground components will be removed to a depth of 48 inches and the excavation filled, contoured, and revegetated. All unexcavated areas compacted by equipment used in decommissioning shall be de-compacted in a manner to adequately restore the topsoil and subgrade material to the proper density consistent and compatible with the surrounding area. The area will be thoroughly cleaned and all debris removed.

4.8 AIRCRAFT DETECTION LIGHTING SYSTEM

Disassembly of the ADLS unit will be completed, and all material/equipment will be removed from the site. Steel, conductors, switches, transformers, etc. will be reconditioned and reused, sold as scrap, recycled, or disposed of appropriately, depending on market value. The foundation will be removed to a depth of 48 inches bgs, and the excavated area will be filled, contoured, and revegetated. The site surface gravel will be removed for disposal. All unexcavated areas compacted by equipment used in decommissioning shall be de-compacted in a manner to adequately restore the topsoil and subgrade material to the proper density consistent and compatible with the surrounding area. The area will be thoroughly cleaned, and all debris will be removed.

4.9 METEOROLOGICAL TOWER

One permanent meteorological tower will be disassembled at an appropriate time during the decommissioning activities so as not to interfere with the other ongoing work. This typically involves the use of a base crane to dismantle the mast, section by section, down to the foundation surface. The instrumentation and booms would be either removed before the sections are laid down or removed from the sections once on the ground.

The disassembly work includes the cost of labor, machinery, and tools to perform the dismantling tasks, including foundation removal to 48 inches below grade, and the loading of the dismantled material onto transport vehicles for removal from the site to an appropriate disposal, salvage, or rework facility.

5.0 SITE RESTORATION PROCESS DESCRIPTION

To the extent possible, topsoil will be removed prior to removal of structures from all work areas and stockpiled, clearly designated, and separated from other excavated material. Prior to topsoil replacement, all rocks 4 inches or greater will be removed from the surface of the subsoil. The topsoil will be de-compacted to match the density and consistency of the immediate surrounding area. The topsoil will be replaced to original depth, and original surface contours reestablished where possible. All rocks 4 inches or larger will be removed from the surface of the topsoil. Any topsoil deficiency and trench settling will be mitigated with imported topsoil consistent with the quality of the affected site.

All disturbed soil surfaces will be seeded with a seed mix agreed upon with the landowner(s) and/or applicable local, state, or federal agencies such as the U.S. Department of Agriculture. These areas will be restored to a condition and forage density similar to the original condition. In all areas, restoration will include, as reasonably required, leveling, terracing, mulching, and other necessary steps to prevent soil erosion, to ensure establishment of suitable grasses and forbs, and to control noxious weeds. Areas restored in agricultural fields will only be reseeded at request of the landowner. It is assumed that 50 percent of the access roads will be in agricultural areas.

6.0 ESTIMATED COST OF DECOMMISSIONING

At the time of retirement, the above-grade steel structures and turbine nacelles are assumed to have significant scrap value which would offset a portion of the cost to remove these items. However, the Project would also incur costs for removal and disposal of the wind turbine blades, foundations, and other Project facilities, along with the costs for the restoration of the site following the removal of salvageable equipment and disposal of other items.

The decommissioning cost estimate provided herein includes the costs to return the site to a condition compatible with the surrounding land and similar to the conditions that existed before development of the Project. Included in the estimate are the costs to decommission the power generating equipment associated with the Project, as well as the costs to retire the Project facilities, with all equipment and structures removed to a depth of 48 inches below grade. The following scenarios were considered when building the cost estimates:

- GE 2.82-MW model assuming salvage and no resale.
- GE 2.82-MW model assuming no salvage and no resale.

Cost estimates for the GE 2.82-MW model include 1) costs offset by the revenue that would be received for scrap value of steel, aluminum, and copper equipment (scrap credit) and 2) costs without scrap credit. No resale of the Project facilities for reuse is considered. Accordingly, they are “no resale” estimates.

The estimated decommissioning costs for the Project were prepared using available information from a variety of credible industry sources. As summarized in Attachment A, the current cost of decommissioning this Project is provided in Table 1 in 2021 dollars. The cost scenarios include no salvage value as well as a partial offset from the salvage value of the towers, turbine components, and electrical equipment.

Table 1. Decommissioning Cost by Model Scenario

Turbine Model Scenario	Estimate Cost per Turbine	Estimated Cost per MW
GE 2.82-MW model assuming salvage	\$50,094	\$17,765
GE 2.82-MW model without salvage	\$161,408	\$57,243

The detailed reclamation cost estimates are provided in Attachment B.

**ATTACHMENT A. SUMMARY OF ESTIMATED COST OF
DECOMMISSIONING PER TURBINE**

SUMMARY OF ESTIMATED COST OF DECOMMISSIONING PER TURBINE

Decommissioning cost per MW (in current dollars)				
GE 2.82-127 MW Turbines with Salvage				
	Quantity	Unit	Unit Price	Total
Mob/Demob				
Equipment, facilities & personnel	1	lump sum	\$ 911,610	
Site Facilities - rental	1	lump sum	\$ 12,930	
				\$ 924,540
Field Management				
\$18,282.31/week	24	week	\$ 438,776	\$ 438,776
Substation & Switchyard Removal				
	1	lump sum	\$ 205,905	\$ 205,905
ADLS System Removal				
	1	lump sum	\$ 13,644	\$ 13,644
O&M Building Removal				
	1	lump sum	\$ 24,625	\$ 24,625
Met Tower Removal				
	1	lump sum	\$ 3,843	\$ 3,843
Removal of a Tower and Nacelle Units				
Construct/remove temporary crane pads (\$7,747/WTG)	71	each	\$ 550,009	
WTG Removal (\$30,000/WTG)	71	each	\$ 2,130,000	
WTG foundation removal	71	each	\$ 692,621	
WTG Sizing & Loadout	71	each	\$ 2,912,297	\$ 6,284,927
Salvage				
(Net salvage value of \$7,881,300 for scrap metal from transformer, WTG, transmission lines and poles, and pad mounted transformers)	1	each	\$ 7,903,300	\$ (7,903,300)
Pad mounted transformer removal				
\$3,649/WTG	71	each	\$ 259,054	\$ 259,054
Site Restoration, Seeding and Re-vegetation				
(≈32.2 miles of access roadway, 8 acre substation & switchyard, and .5 acres/turbine site)	1	lump sum	\$ 858,345	\$ 858,345
Removal of Transmission Line				
(~200 ft of transmission line)	1	lump sum	\$ 20,955	\$ 20,955
Access Road Removal				
(≈32.2 miles of gravel road)				
16' wide and 6" depth		CY	\$ 624,004	\$ 624,004
Administrative & Project Management Tasks				
Home office, Project Management	1	lump sum	\$ 482,931	
Contractor OH & fee (13%)	1	lump sum	\$ 1,318,401	\$ 1,801,332
Total Removal Cost for 71 Turbines (200.2 MW)	1	lump sum		\$ 3,556,650
Removal Cost/WTG	71	each	\$ 50,094	
Removal Cost/MW	200.2	each	\$ 17,765	

Decommissioning cost per MW (in current dollars)				
GE 2.82-127 MW Turbines without Salvage				
	Quantity	Unit	Unit Price	Total
Mob/Demob				
Equipment, facilities & personnel	1	lump sum	\$ 911,610	
Site Facilities - rental	1	lump sum	\$ 12,930	
				\$ 924,540
Field Management				
\$18,282.31/week	24	week	\$ 438,775	\$ 438,775
Substation & Switchyard Removal				
	1	lump sum	\$ 205,906	\$ 205,906
ADLS System Removal				
	1	lump sum	\$ 13,644	\$ 13,644
O&M Building Removal				
	1	lump sum	\$ 24,625	\$ 24,625
Met Tower Removal				
	1	lump sum	\$ 3,843	\$ 3,843
Removal of a Tower and Nacelle Units				
Construct/remove temporary crane pads (\$7,746.61/WTG)	71	each	\$ 550,009	
WTG Removal (\$30,000/WTG)	71	each	\$ 2,130,000	
WTG foundation removal	71	each	\$ 692,621	
WTG Sizing & Loadout	71	each	\$ 2,912,297	\$ 6,284,927
Salvage				
(Not applicable)	1	each	\$ -	\$ -
Pad mounted transformer removal				
\$3,625/WTG	71	each	\$ 259,054	\$ 259,054
Site Restoration, Seeding and Re-vegetation				
(≈32.2 miles of access roadway, 8 acre substation & switchyard, and .5 acres/turbine site)	1	lump sum	\$ 858,345	\$ 858,345
Removal of Transmission Line				
(~200 ft of transmission line removed)	1	lump sum	\$ 20,955	\$ 20,955
Access Road Removal				
(≈32.2 miles of gravel road)		CY	\$ 624,004	
16' wide and 6" depth				\$ 624,004
Administrative & Project Management Tasks				
Home office, Project Management	1	lump sum	\$ 482,931	
Contractor OH & fee (13%)	1	lump sum	\$ 1,318,401	\$ 1,801,332
Total Removal Cost for 71 Turbines (200.2 MW)	1	lump sum		\$ 11,459,950
<i>Removal Cost/WTG</i>	71	each	\$ 161,408	

Assumptions:

The scope of work and individual tasks were established using professional experience, in collaboration with Tetra Tech's engineering staff. The Project was broken into individual tasks that were each estimated separately to include labor requirements, equipment needs, and duration. Production rates were established using professional experience and published standards that include RS Means (www.rsmeans.com). Labor rates prevalent to the geographic area of the Project were obtained by referencing U.S. Department of Labor wage determinations. After the estimate was completed, typical average markups that are industry standard were applied for contingency, overhead, and fee. Estimating methods and assumptions specific to this estimate are as follows:

- Labor cost were developed by reviewing U.S. Department of Labor wage determinations and rates published by RS Means. An average rate was developed that includes base wage, fringe, and payroll tax liability. The final rate used in the estimate is an average of 40 hours standard (ST), and 10 hours overtime (OT) per week, assuming a 50-hour work week during decommissioning activities.
- Equipment (commonly referred to as yellow iron) rates used in the estimate are developed by reviewing rates published by RS Means, and historical vendor quotes. Rates include fuel, maintenance, and wear and tear of ground engaging components. Rates utilized assume the use of rental equipment, not owned.
- Mobilization and demobilization costs are estimated to be approximately 13 percent or less of the overall contractor's costs. This reflects the actual cost to mobilize equipment, facilities, and crew to the Project site. A substantial portion of this cost is for the crane and crew required for WTG removal. This amount does not include the front loading of cost from other tasks.
- Work was estimated on a unit cost basis, priced by task that follows the progression of work from start to finish. Unit costs are developed by including the labor, equipment, and production rate required for each individual task. RS Means and estimator's experience are utilized to establish the crew, equipment, and production for each individual task.
- Roads would be restored so that they become a part of the natural surroundings and are no longer recognizable to the greatest extent possible. Road gravel would be used to backfill foundation locations to within 6 inches of final grade. It is expected that the remaining road gravel will be accepted by local receivers with no additional disposal cost. Access roads located on agricultural land, assumed to be 20 percent of roads, will not be reseeded. On private lands, prior existing roads would be restored at the request of the current landowner.
- The O&M building is expected to be a pre-fabricated steel building constructed on a concrete slab on grade. The concrete slab is expected to be 5,000 sf in area and 18" thick with a grade beam (total expected concrete volume of 320 cy).
- All concrete foundations will be removed to a depth of 48 inches bgs. Gravel from road removal will be utilized to backfill to within 6 inches of final grade, and then completed with an additional 6 inches of topsoil. Concrete foundation removal will be accomplished with the use of excavators with concrete breakers. Processed concrete will be transported offsite under the same assumptions as road gravel.
- Underground electrical distribution cabling is assumed to be aluminum, at least 48 inches deep, and of low salvage value. As such, underground cable will be abandoned in place, with only the stubs to grade being removed down to 48 inches bgs.
- Oil from transformers and nacelles will be drained prior to removal, and the oil disposed of following state and federal regulations. Oil disposal cost is assumed to be \$4 per gallon.
- To reduce the cost of loading and transport, WTG components, substation transformers, and equipment will be sized onsite utilizing shears and torch crews. Blades are assumed to have no scrap value and will

incur an estimated cost of \$95 per ton for trucking and landfill fees. Remaining material is assumed to have a scrap value, with a cost of \$65 per ton for trucking, and a credit of \$216 per ton for scrap.

- WTG removal will require the construction and subsequent removal of temporary crane pads. Estimated cost of crane pads is based on an engineered design from a similar project.
- Final restoration will include the placement of 6 inches of topsoil on all disturbed areas, with a final seeding utilizing a mix of native grasses. It is assumed that 50 percent of the topsoil required for restoration is available onsite as a result of the original installation.
- The costs for temporary facilities have been included in the restoration cost. These include one office trailer, two Conex storage units, portolets, first aid supplies and utilities.
- Field management during construction activities has been added to the estimate. These costs include one Superintendent, one Health and Safety Representative and two Field Engineers. These positions are critical to the safe and successful execution of work.
- A contractor's home office, project management, overhead, and fee can vary widely by contractor. As such, averages were developed for the estimate and added as a percentage of total cost. These include 5 percent for home office and project management, and 13 percent for overhead and fee. Note that contractor contingency costs are not included. Several other miscellaneous costs have been approximated, including permits, engineering, signage, fencing, traffic control, utility disconnects, etc. In the context of the overall estimate, these are incidental costs that are covered in the estimate markups.

ATTACHMENT B. DETAILED RECLAMATION COST ESTIMATE

Estimate Summary

TETRA TECH EC, INC.

Job Code: ENGIE North Bend Wind

Description: Decommissioning Estimate

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	NORTH BEND WIND RETIREMENT	827.31	0.00	Detail	U.S. Dollar	3,556,650.47	3,556,650.47
1.1	1.00 Lump Sum	Mob / Demob	5.00	0.20	Detail	U.S. Dollar	911,609.84	911,609.84
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	0.00	Detail	U.S. Dollar	101,500.00	101,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UERNTRLG	Rental Equip Transp-Large		10.00 Each	U.S. Dollar	10,000.00	100,000.00		
UERNTRSM	Rental Equip Transp-Small		10.00 Each	U.S. Dollar	150.00	1,500.00		
1.1.2	1.00 Lump Sum	Site Facilities	0.00	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UOCONMOB	Connex Box Mob		2.00 Each	U.S. Dollar	300.00	600.00		
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		2.00 Each	U.S. Dollar	800.00	1,600.00		
1.1.3	3.00 Day	Crew Mob & Site Setup	3.00	1.00	Detail	U.S. Dollar	16,581.97	49,745.90
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	600.00	20.00 Each (hourly)	U.S. Dollar	45.44	27,266.58		
L010101	OPERATOR	300.00	10.00 Each (hourly)	U.S. Dollar	56.75	17,026.01		
L080940	TEAMSTER	120.00	4.00 Each (hourly)	U.S. Dollar	45.44	5,453.32		
1.1.4	2.00 Day	Crew Demob & Site Cleanup	2.00	1.00	Detail	U.S. Dollar	16,581.97	33,163.93
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	400.00	20.00 Each (hourly)	U.S. Dollar	45.44	18,177.72		
L010101	OPERATOR	200.00	10.00 Each (hourly)	U.S. Dollar	56.75	11,350.67		
L080940	TEAMSTER	80.00	4.00 Each (hourly)	U.S. Dollar	45.44	3,635.54		
1.1.5	1.00 Lump Sum	Mob-Erection Sub	0.00	0.00	Detail	U.S. Dollar	725,000.00	725,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USERECTMOB	Sub-Erection Mobilization		1.00 Each	U.S. Dollar	725,000.00	725,000.00		
Notes: *****								
Historical pricing from past projects								

1.2	6.00 Month	Site Facilities	0.00	0.00	Detail	U.S. Dollar	2,155.00	12,930.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
URCONNEX	Connex Box		12.00 Month	U.S. Dollar	150.00	1,800.00		
UROFFTRL	Office Trailer -12x60		6.00 Month	U.S. Dollar	500.00	3,000.00		
UO1STAI	1st Aid Supplies		6.00 Month	U.S. Dollar	300.00	1,800.00		
UOOFFPHN	Monthly Office Phone		6.00 Month	U.S. Dollar	500.00	3,000.00		
UOOFFSUP	Office Supplies(\$/prs/mo)		6.00 Month	U.S. Dollar	55.00	330.00		
UINT	Internet		6.00 Month	U.S. Dollar	200.00	1,200.00		
URPRTAJH	Port-a-John Unit(s) (4)		6.00 Month	U.S. Dollar	300.00	1,800.00		
1.3	24.00 Week	Field Management	144.00	0.17	Detail	U.S. Dollar	18,282.31	438,775.52
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L90FXX02	Field - Proj Superintendent	1,440.00	1.00 Each (hourly)	U.S. Dollar	83.18	119,782.08		
RPUTRK05	F-250 4X4 3/4 TON PICKUP	5,760.00	4.00 Each (hourly)	U.S. Dollar	11.07	63,734.40		
L90FEL00	Field - Engr. Tech	1,440.00	1.00 Each (hourly)	U.S. Dollar	39.57	56,986.59		
L90FXX03	Field - SHSO	1,440.00	1.00 Each (hourly)	U.S. Dollar	89.26	128,540.02		
L90FEJ00	Field - Asst. Engr.	1,440.00	1.00 Each (hourly)	U.S. Dollar	48.43	69,732.43		

Cost Item									
CBS Position Code	Quantity	UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.4	1.00	Lump Sum	O&M Building Removal	6.48	0.15	Detail	U.S. Dollar	24,624.55	24,624.55
1.4.1	40.00	Ton	Structure Demo	2.00	20.00	Detail	U.S. Dollar	257.21	10,288.51
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00	Each (hourly)	U.S. Dollar	124.54	2,490.70		
*REXCAV06E	Excav 100K w/ Shear	20.00	1.00	Each (hourly)	U.S. Dollar	185.50	3,709.90		
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77		
1.4.2	320.00	Cubic Yard	Remove Foundations To Subgrade	4.48	71.43	Detail	U.S. Dollar	35.74	11,436.04
1.4.2.1	320.00	Cubic Yard	Excavate / Remove Foundation - Various Depth	1.28	250.00	Detail	U.S. Dollar	17.78	5,688.97
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	12.80	1.00	Each (hourly)	U.S. Dollar	45.44	581.69		
L010101	OPERATOR	25.60	2.00	Each (hourly)	U.S. Dollar	56.75	1,452.89		
*REXCAV06C	Excav 100K w/ Hammer	12.80	1.00	Each (hourly)	U.S. Dollar	160.97	2,060.35		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	12.80	1.00	Each (hourly)	U.S. Dollar	124.54	1,594.05		
1.4.2.2	320.00	Cubic Yard	Concrete Transport Offsite	3.20	100.00	Detail	U.S. Dollar	17.96	5,747.07
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	32.00	1.00	Each (hourly)	U.S. Dollar	74.29	2,377.28		
L080940	TEAMSTER	32.00	1.00	Each (hourly)	U.S. Dollar	45.44	1,454.22		
L010101	OPERATOR	16.00	0.50	Each (hourly)	U.S. Dollar	56.75	908.05		
RFELWH09	CAT 966F LOADER, 4.25CY	16.00	0.50	Each (hourly)	U.S. Dollar	62.97	1,007.52		
1.4.3	2.00	Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00	Each	U.S. Dollar	1.00	2,750.00		
Notes: ***** Assumption: 45,000 lbs per load *****									
1.4.4	5.00	Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	30.00	150.00
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		150.00	Each	U.S. Dollar	1.00	150.00		
Notes: ***** Assumption: 324,016 modules x 60.63 lbs each *****									
1.5	1.00	Lump Sum	ADLS Tower / System Removal	2.55	0.39	Detail	U.S. Dollar	13,644.06	13,644.06
1.5.1	1.00	Each	ADLS Tower / System Removal	1.50	0.67	Detail	U.S. Dollar	8,681.25	8,681.25
1.5.1.1	1.00	Each	Cut / Lower Structure	1.00	1.00	Detail	U.S. Dollar	3,829.61	3,829.61
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	4.00	Each (hourly)	U.S. Dollar	45.44	1,817.77		
L010101	OPERATOR	10.00	1.00	Each (hourly)	U.S. Dollar	56.75	567.53		
*RXMISC14	MAN LIFT GAS 125ft	10.00	1.00	Each (hourly)	U.S. Dollar	53.52	535.20		
*RXMISC23	GROVE RT 200 TON	10.00	1.00	Each (hourly)	U.S. Dollar	90.91	909.10		
1.5.1.2	1.00	Each	Cut / Size Structure & Loadout	0.50	2.00	Detail	U.S. Dollar	2,101.65	2,101.65
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	30.00	6.00	Each (hourly)	U.S. Dollar	45.44	1,363.33		
L010101	OPERATOR	5.00	1.00	Each (hourly)	U.S. Dollar	56.75	283.77		
*RXMISC23	GROVE RT 200 TON	5.00	1.00	Each (hourly)	U.S. Dollar	90.91	454.55		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.5.1.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar	1.00	2,750.00		
Notes: ***** Assume 20 ton per steel structure *****								
1.5.2	1.00 Each	Remove Foundations To Subgrade	1.05	0.95	Detail	U.S. Dollar	4,962.81	4,962.81
1.5.2.1	1.00 Each	Excavate / Remove Foundation - Various Depth	1.00	1.00	Detail	U.S. Dollar	4,898.95	4,898.95
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	20.00	2.00 Each (hourly)	U.S. Dollar	45.44	908.89		
L010101	OPERATOR	20.00	2.00 Each (hourly)	U.S. Dollar	56.75	1,135.07		
*REXCAV06C	Excav 100K w/ Hammer	10.00	1.00 Each (hourly)	U.S. Dollar	160.97	1,609.65		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	10.00	1.00 Each (hourly)	U.S. Dollar	124.54	1,245.35		
1.5.2.2	4.00 Cubic Yard	Concrete Transport Offsite	0.05	75.00	Detail	U.S. Dollar	15.96	63.86
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	0.53	1.00 Each (hourly)	U.S. Dollar	74.29	39.62		
L080940	TEAMSTER	0.53	1.00 Each (hourly)	U.S. Dollar	45.44	24.24		
1.6	1.00 Each	MET Tower Removal	0.71	1.42	Detail	U.S. Dollar	3,842.80	3,842.80
1.6.1	1.00 Each	Structure Demo	0.50	2.00	Detail	U.S. Dollar	2,572.13	2,572.13
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	5.00	1.00 Each (hourly)	U.S. Dollar	124.54	622.68		
*REXCAV06E	Excav 100K w/ Shear	5.00	1.00 Each (hourly)	U.S. Dollar	185.50	927.48		
L010101	OPERATOR	10.00	2.00 Each (hourly)	U.S. Dollar	56.75	567.53		
L060100	GENERAL LABORER	10.00	2.00 Each (hourly)	U.S. Dollar	45.44	454.44		
1.6.2	15.00 Cubic Yard	Remove Foundation	0.10	146.00	Detail	U.S. Dollar	48.47	727.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	2.05	2.00 Each (hourly)	U.S. Dollar	45.44	93.38		
L010101	OPERATOR	3.08	3.00 Each (hourly)	U.S. Dollar	56.75	174.92		
*REXCAV06C	Excav 100K w/ Hammer	2.05	2.00 Each (hourly)	U.S. Dollar	160.97	330.75		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	1.03	1.00 Each (hourly)	U.S. Dollar	124.54	127.95		
1.6.3	15.00 Cubic Yard	Concrete Transport Offsite	0.10	146.67	Detail	U.S. Dollar	12.25	183.68
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	1.02	1.00 Each (hourly)	U.S. Dollar	74.29	75.98		
L080940	TEAMSTER	1.02	1.00 Each (hourly)	U.S. Dollar	45.44	46.48		
L010101	OPERATOR	0.51	0.50 Each (hourly)	U.S. Dollar	56.75	29.02		
RFELWH09	CAT 966F LOADER, 4.25CY	0.51	0.50 Each (hourly)	U.S. Dollar	62.97	32.20		
1.6.4	8.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	45.00	360.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		360.00 Each	U.S. Dollar	1.00	360.00		
1.7	1.00 Lump Sum	Substation & Switchyard Removal	22.27	0.04	Detail	U.S. Dollar	205,905.51	205,905.51
1.7.1	1.00 Day	Fence Removal	1.00	1.00	Detail	U.S. Dollar	1,354.33	1,354.33
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53		
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00	Each (hourly)	U.S. Dollar		33.24	332.35
1.7.2	1.00 Each	Transformer & Switchyard Equip Removal	3.50	0.29	Detail	U.S. Dollar	144,348.46	144,348.46
1.7.2.1	1.00 Each	Oil Removal & Disposal	2.00	0.50	Detail	U.S. Dollar	104,789.07	104,789.07
1.7.2.1.1	1.00 Each	Oil Removal	2.00	0.50	Detail	U.S. Dollar	2,039.07	2,039.07
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	20.00	1.00	Each (hourly)	U.S. Dollar	11.07	221.30	
1.7.2.1.2	25,000.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	100,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		100,000.00	Each	U.S. Dollar	1.00	100,000.00	
1.7.2.1.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00	Each	U.S. Dollar	1.00	2,750.00	
1.7.2.2	150.00 Ton	Demo & Prepare For Shipment Offsite	1.50	100.00	Detail	U.S. Dollar	198.73	29,809.39
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	15.00	1.00	Each (hourly)	U.S. Dollar	98.82	1,482.23	
*REXCAV06E	Excav 100K w/ Shear	30.00	2.00	Each (hourly)	U.S. Dollar	185.50	5,564.85	
*REXCAV08	Excav 240K w/ Shear	30.00	2.00	Each (hourly)	U.S. Dollar	463.46	13,903.80	
L010101	OPERATOR	60.00	4.00	Each (hourly)	U.S. Dollar	56.75	3,405.20	
L060100	GENERAL LABORER	120.00	8.00	Each (hourly)	U.S. Dollar	45.44	5,453.32	
1.7.2.3	150.00 Ton	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	65.00	9,750.00
1.7.2.3.1	150.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	9,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		9,750.00	Each	U.S. Dollar	1.00	9,750.00	
1.7.3	1.00 Each	Remove Control Building	0.10	10.00	Detail	U.S. Dollar	2,637.29	2,637.29
1.7.3.1	10.00 Ton	Demo & Prepare For Shipment Offsite	0.10	100.00	Detail	U.S. Dollar	198.73	1,987.29
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	1.00	1.00	Each (hourly)	U.S. Dollar	98.82	98.82	
*REXCAV06E	Excav 100K w/ Shear	2.00	2.00	Each (hourly)	U.S. Dollar	185.50	370.99	
*REXCAV08	Excav 240K w/ Shear	2.00	2.00	Each (hourly)	U.S. Dollar	463.46	926.92	
L010101	OPERATOR	4.00	4.00	Each (hourly)	U.S. Dollar	56.75	227.01	
L060100	GENERAL LABORER	8.00	8.00	Each (hourly)	U.S. Dollar	45.44	363.55	
1.7.3.2	10.00 Ton	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	65.00	650.00
1.7.3.2.1	10.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	650.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		650.00	Each	U.S. Dollar	1.00	650.00	
1.7.4	2.00 Day	UG Utility & Ground Removal	2.00	1.00	Detail	U.S. Dollar	1,354.33	2,708.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	20.00	1.00	Each (hourly)	U.S. Dollar	56.75	1,135.07	
L060100	GENERAL LABORER	20.00	1.00	Each (hourly)	U.S. Dollar	45.44	908.89	

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00	Each (hourly)	U.S. Dollar		33.24	664.70
1.7.5	500.00 Cubic Yard	Remove Foundations To Subgrade	7.00	71.43	Detail	U.S. Dollar	35.74	17,868.82
1.7.5.1	500.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	2.00	250.00	Detail	U.S. Dollar	17.78	8,889.02
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	20.00	1.00	Each (hourly)	U.S. Dollar	45.44	908.89	
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13	
*REXCAV06C	Excav 100K w/ Hammer	20.00	1.00	Each (hourly)	U.S. Dollar	160.97	3,219.30	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00	Each (hourly)	U.S. Dollar	124.54	2,490.70	
1.7.5.2	500.00 Cubic Yard	Concrete Transport Offsite	5.00	100.00	Detail	U.S. Dollar	17.96	8,979.80
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	50.00	1.00	Each (hourly)	U.S. Dollar	74.29	3,714.50	
L080940	TEAMSTER	50.00	1.00	Each (hourly)	U.S. Dollar	45.44	2,272.22	
L010101	OPERATOR	25.00	0.50	Each (hourly)	U.S. Dollar	56.75	1,418.83	
RFELWH09	CAT 966F LOADER, 4.25CY	25.00	0.50	Each (hourly)	U.S. Dollar	62.97	1,574.25	
1.7.6	1.00 Lump Sum	Misc. Material Disposal	0.00	0.00	Detail	U.S. Dollar	1,675.00	1,675.00
1.7.6.1	1.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,375.00	Each	U.S. Dollar	1.00	1,375.00	
1.7.6.2	10.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	30.00	300.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		300.00	Each	U.S. Dollar	1.00	300.00	
1.7.7	1.00 Lump Sum	Restore Yard	8.67	0.12	Detail	U.S. Dollar	35,312.96	35,312.96
1.7.7.1	4.00 Acre	Backfill / Regrade	2.00	2.00	Detail	U.S. Dollar	1,692.29	6,769.18
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77	
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13	
REXCAV06B	Gradall - Excavator	20.00	1.00	Each (hourly)	U.S. Dollar	75.73	1,514.57	
*RDOZER08	CAT D6 LGP Dozer	20.00	1.00	Each (hourly)	U.S. Dollar	58.34	1,166.70	
1.7.7.2	2,000.00 Cubic Yard	Vegetative Cover	6.67	300.00	Detail	U.S. Dollar	12.74	25,483.78
1.7.7.2.1	1,000.00 Cubic Yard	Topsoil, Delivered	0.00	0.00	Detail	U.S. Dollar	10.00	10,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
IMSOIL	Topsoil		500.00	Cubic Yard	U.S. Dollar	20.00	10,000.00	
Notes: ***** Assume that 50% of the topsoil required for restoration is bermed and stockpiled adjacent to the substation *****								
1.7.7.2.2	2,000.00 Cubic Yard	Placement	6.67	300.00	Detail	U.S. Dollar	7.74	15,483.78
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	133.33	2.00	Each (hourly)	U.S. Dollar	56.75	7,567.11	
RDOZER08	CAT D6N XL	133.33	2.00	Each (hourly)	U.S. Dollar	59.38	7,916.67	
1.7.7.3	4.00 Acre	Re-Seed With Native Vegetation	0.00	0.00	Detail	U.S. Dollar	765.00	3,060.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USLANDSCAPE	Landscape Sub		4.00	Acre	U.S. Dollar	765.00	3,060.00	

Cost Item									
CBS Position Code	Quantity	UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.8	1.00	Lump Sum	Transmission Line Removal	4.09	0.24	Detail	U.S. Dollar	20,955.44	20,955.44
1.8.1	2.00	Each	Structure Removal	2.00	1.00	Detail	U.S. Dollar	5,391.45	10,782.90
1.8.1.1	2.00	Each	Cut / Lower Structure	1.00	2.00	Detail	U.S. Dollar	1,914.80	3,829.61
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	4.00	Each (hourly)	U.S. Dollar	45.44	1,817.77		
L010101	OPERATOR	10.00	1.00	Each (hourly)	U.S. Dollar	56.75	567.53		
*RXMISC14	MAN LIFT GAS 125ft	10.00	1.00	Each (hourly)	U.S. Dollar	53.52	535.20		
*RXMISC23	GROVE RT 200 TON	10.00	1.00	Each (hourly)	U.S. Dollar	90.91	909.10		
1.8.1.2	2.00	Each	Cut / Size Structure & Loadout	1.00	2.00	Detail	U.S. Dollar	2,101.65	4,203.29
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	60.00	6.00	Each (hourly)	U.S. Dollar	45.44	2,726.66		
L010101	OPERATOR	10.00	1.00	Each (hourly)	U.S. Dollar	56.75	567.53		
*RXMISC23	GROVE RT 200 TON	10.00	1.00	Each (hourly)	U.S. Dollar	90.91	909.10		
1.8.1.3	2.00	Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00	Each	U.S. Dollar	1.00	2,750.00		
Notes: *****									
Assume 9 ton per steel structure									

1.8.2	2.00	Each	Remove Foundations To Subgrade	2.04	0.98	Detail	U.S. Dollar	4,924.73	9,849.45
1.8.2.1	2.00	Each	Excavate / Remove Foundation - Various Depth	2.00	1.00	Detail	U.S. Dollar	4,898.95	9,797.91
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77		
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13		
*REXCAV06C	Excav 100K w/ Hammer	20.00	1.00	Each (hourly)	U.S. Dollar	160.97	3,219.30		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00	Each (hourly)	U.S. Dollar	124.54	2,490.70		
1.8.2.2	3.23	Cubic Yard	Concrete Transport Offsite	0.04	75.00	Detail	U.S. Dollar	15.96	51.55
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	0.43	1.00	Each (hourly)	U.S. Dollar	74.29	31.98		
L080940	TEAMSTER	0.43	1.00	Each (hourly)	U.S. Dollar	45.44	19.56		
1.8.3	0.05	Mile	Conductor Removal	0.05	1.00	Detail	U.S. Dollar	6,461.73	323.09
1.8.3.1	0.05	Mile	Cut / Lower Cable, Size & Loadout	0.05	1.00	Detail	U.S. Dollar	6,136.73	306.84
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	3.00	6.00	Each (hourly)	U.S. Dollar	45.44	136.33		
L010101	OPERATOR	1.00	2.00	Each (hourly)	U.S. Dollar	56.75	56.75		
*RXMISC14	MAN LIFT GAS 125ft	1.00	2.00	Each (hourly)	U.S. Dollar	53.52	53.52		
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	0.50	1.00	Each (hourly)	U.S. Dollar	21.65	10.82		
*RXMISC19	Material Handler	0.50	1.00	Each (hourly)	U.S. Dollar	98.82	49.41		
1.8.3.2	0.25	Ton	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	65.00	16.25
1.8.3.2.1	0.25	Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	16.25
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		16.25	Each	U.S. Dollar	1.00	16.25		
1.9	71.00	Each	Construct & Remove Temporary Crane Pads	94.67	0.75	Detail	U.S. Dollar	7,746.61	550,009.40

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: ***** 60' x 40' Temporary Crane Pad *****								
1.9.1	7,100.00 Ton	Crane Pad 4" Stone 8" depth	35.50	200.00	Detail	U.S. Dollar	35.44	251,608.98
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
M4"STONE	4" Stone		7,100.00 Ton	U.S. Dollar	15.00	106,500.00		
RDOZER06	CAT D5H XL	355.00	1.00 Each (hourly)	U.S. Dollar	43.56	15,462.03		
RROLLR06	CP-563C 84" SMOOTH DRUM	355.00	1.00 Each (hourly)	U.S. Dollar	51.70	18,352.08		
L010101	OPERATOR	710.00	2.00 Each (hourly)	U.S. Dollar	56.75	40,294.88		
USSTONETRK	Sub-Trucking of Stone		7,100.00 Ton	U.S. Dollar	10.00	71,000.00		
1.9.2	5,325.00 Ton	Crane Pad 2" Stone 6" depth	35.50	150.00	Detail	U.S. Dollar	38.92	207,233.98
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USSTONETRK	Sub-Trucking of Stone		5,325.00 Ton	U.S. Dollar	10.00	53,250.00		
L010101	OPERATOR	710.00	2.00 Each (hourly)	U.S. Dollar	56.75	40,294.88		
RDOZER06	CAT D5H XL	355.00	1.00 Each (hourly)	U.S. Dollar	43.56	15,462.03		
RROLLR06	CP-563C 84" SMOOTH DRUM	355.00	1.00 Each (hourly)	U.S. Dollar	51.70	18,352.08		
M2"STONE	Material - 2" Stone		5,325.00 Ton	U.S. Dollar	15.00	79,875.00		
1.9.3	71.00 Each	Remove stone after erection	23.67	3.00	Detail	U.S. Dollar	1,284.03	91,166.44
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDOZER06	CAT D5H XL	236.67	1.00 Each (hourly)	U.S. Dollar	43.56	10,308.02		
RFELWH09	CAT 966F LOADER, 4.25CY	236.67	1.00 Each (hourly)	U.S. Dollar	62.97	14,902.90		
L010101	OPERATOR	473.33	2.00 Each (hourly)	U.S. Dollar	56.75	26,863.25		
L060100	GENERAL LABORER	236.67	1.00 Each (hourly)	U.S. Dollar	45.44	10,755.15		
RDUTRK06	CAT D350D, 18CY-24CY	236.67	1.00 Each (hourly)	U.S. Dollar	74.29	17,581.97		
L080940	TEAMSTER	236.67	1.00 Each (hourly)	U.S. Dollar	45.44	10,755.15		
1.10	71.00 Each	WTG Removal	0.00	0.00	Detail	U.S. Dollar	30,000.00	2,130,000.00
1.10.1	71.00 Each	Remove Top,Nacell, Rotor	0.00	0.00	Detail	U.S. Dollar	20,000.00	1,420,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USERECT1	Sub-Top, Nacelle, Rotor		71.00 Each	U.S. Dollar	20,000.00	1,420,000.00		
1.10.2	71.00 Each	Remove Base & Mid	0.00	0.00	Detail	U.S. Dollar	10,000.00	710,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USERECT	Erection Sub - Base/Mid		71.00 Each	U.S. Dollar	10,000.00	710,000.00		
1.11	71.00 Each	WTG Sizing & Loadout - 2.8 MW, 89 m Tower	80.73	0.88	Detail	U.S. Dollar	41,018.27	2,912,297.09
1.11.1	71.00 Each	Oil Removal & Disposal	14.20	5.00	Detail	U.S. Dollar	386.08	27,412.01
1.11.1.1	71.00 Each	Oil Removal	14.20	5.00	Detail	U.S. Dollar	203.91	14,477.41
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	284.00	2.00 Each (hourly)	U.S. Dollar	45.44	12,906.18		
RPUTRK05	F-250 4X4 3/4 TON PICKUP	142.00	1.00 Each (hourly)	U.S. Dollar	11.07	1,571.23		
1.11.1.2	2,840.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	11,360.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		11,360.00 Each	U.S. Dollar	1.00	11,360.00		
1.11.1.3	1.15 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,574.60

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,574.60 Each	U.S. Dollar	1.00	1,574.60		
1.11.2	11,573.00 Ton	Demo & Prepare For Shipment Offsite - Top, Mid & Base	40.47	286.00 Detail	U.S. Dollar	69.49	804,158.73	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	404.65	1.00 Each (hourly)	U.S. Dollar	98.82	39,985.52		
*REXCAV06E	Excav 100K w/ Shear	809.30	2.00 Each (hourly)	U.S. Dollar	185.50	150,121.23		
*REXCAV08	Excav 240K w/ Shear	809.30	2.00 Each (hourly)	U.S. Dollar	463.46	375,078.50		
L010101	OPERATOR	1,618.60	4.00 Each (hourly)	U.S. Dollar	56.75	91,861.05		
L060100	GENERAL LABORER	3,237.20	8.00 Each (hourly)	U.S. Dollar	45.44	147,112.42		
1.11.3	2,272.00 Ton	Demo & Prepare For Shipment Offsite - Hub	7.94	286.00 Detail	U.S. Dollar	69.49	157,871.65	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	79.44	1.00 Each (hourly)	U.S. Dollar	98.82	7,849.92		
*REXCAV06E	Excav 100K w/ Shear	158.88	2.00 Each (hourly)	U.S. Dollar	185.50	29,471.65		
*REXCAV08	Excav 240K w/ Shear	158.88	2.00 Each (hourly)	U.S. Dollar	463.46	73,635.04		
L010101	OPERATOR	317.76	4.00 Each (hourly)	U.S. Dollar	56.75	18,034.07		
L060100	GENERAL LABORER	635.52	8.00 Each (hourly)	U.S. Dollar	45.44	28,880.96		
1.11.4	4,970.00 Ton	Demo & Prepare For Shipment Offsite - Nacelle	17.38	286.00 Detail	U.S. Dollar	69.49	345,344.24	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	173.78	1.00 Each (hourly)	U.S. Dollar	98.82	17,171.70		
*REXCAV06E	Excav 100K w/ Shear	347.55	2.00 Each (hourly)	U.S. Dollar	185.50	64,469.24		
*REXCAV08	Excav 240K w/ Shear	347.55	2.00 Each (hourly)	U.S. Dollar	463.46	161,076.66		
L010101	OPERATOR	695.10	4.00 Each (hourly)	U.S. Dollar	56.75	39,449.53		
L060100	GENERAL LABORER	1,390.21	8.00 Each (hourly)	U.S. Dollar	45.44	63,177.11		
1.11.5	213.00 Ton	Demo & Prepare For Shipment Offsite - Down Tower Assembly	0.74	286.00 Detail	U.S. Dollar	69.49	14,800.47	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	7.45	1.00 Each (hourly)	U.S. Dollar	98.82	735.93		
*REXCAV06E	Excav 100K w/ Shear	14.90	2.00 Each (hourly)	U.S. Dollar	185.50	2,762.97		
*REXCAV08	Excav 240K w/ Shear	14.90	2.00 Each (hourly)	U.S. Dollar	463.46	6,903.29		
L010101	OPERATOR	29.79	4.00 Each (hourly)	U.S. Dollar	56.75	1,690.69		
L060100	GENERAL LABORER	59.58	8.00 Each (hourly)	U.S. Dollar	45.44	2,707.59		
1.11.6	71.00 Each	Salvage & Recovery	0.00	0.00 Detail	U.S. Dollar	17,355.00	1,232,205.00	
1.11.6.1	18,957.00 Ton	Scrap Trucking Cost	0.00	0.00 Detail	U.S. Dollar	65.00	1,232,205.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,232,205.00 Each	U.S. Dollar	1.00	1,232,205.00		
1.11.7	3,479.00 Ton	Blade T&D	0.00	0.00 Detail	U.S. Dollar	95.00	330,505.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		226,135.00 Each	U.S. Dollar	1.00	226,135.00		
USDISPOSAL	Disposal Fee's		104,370.00 Each	U.S. Dollar	1.00	104,370.00		
1.12	71.00 Each	WTG Foundation Removal	156.04	0.46 Detail	U.S. Dollar	9,755.22	692,620.91	
1.12.1	1,065.00 Cubic Yard	Remove 13' x 3' Cylindrical Pedestal	7.10	150.00 Detail	U.S. Dollar	47.17	50,240.57	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	142.00	2.00 Each (hourly)	U.S. Dollar	45.44	6,453.09		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010101	OPERATOR		213.00	3.00	Each (hourly)	U.S. Dollar	56.75	12,088.46
*REXCAV06C	Excav 100K w/ Hammer		142.00	2.00	Each (hourly)	U.S. Dollar	160.97	22,857.03
*REXCAV06A	Excav 100K w/ Bucket & Grapple		71.00	1.00	Each (hourly)	U.S. Dollar	124.54	8,841.99
1.12.2	10,366.00 Cubic Yard	Remove Top 2' Of Octagonal Base	71.00	146.00	Detail	U.S. Dollar	48.47	502,405.69
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	1,420.00	2.00	Each (hourly)	U.S. Dollar	45.44	64,530.91	
L010101	OPERATOR	2,130.00	3.00	Each (hourly)	U.S. Dollar	56.75	120,884.64	
*REXCAV06C	Excav 100K w/ Hammer	1,420.00	2.00	Each (hourly)	U.S. Dollar	160.97	228,570.30	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	710.00	1.00	Each (hourly)	U.S. Dollar	124.54	88,419.85	
1.12.3	11,431.00 Cubic Yard	Concrete Transport Offsite	77.94	146.67	Detail	U.S. Dollar	12.25	139,974.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	779.39	1.00	Each (hourly)	U.S. Dollar	74.29	57,900.61	
L080940	TEAMSTER	779.39	1.00	Each (hourly)	U.S. Dollar	45.44	35,418.67	
L010101	OPERATOR	389.69	0.50	Each (hourly)	U.S. Dollar	56.75	22,116.39	
RFELWH09	CAT 966F LOADER, 4.25CY	389.69	0.50	Each (hourly)	U.S. Dollar	62.97	24,538.98	
1.13	71.00 Each	Pad Mount Transformer Removal	18.74	3.79	Detail	U.S. Dollar	3,648.65	259,054.49
1.13.1	71.00 Each	Oil Removal & Disposal	14.20	5.00	Detail	U.S. Dollar	2,979.55	211,548.11
1.13.1.1	71.00 Each	Oil Removal	14.20	5.00	Detail	U.S. Dollar	113.02	8,024.32
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	142.00	1.00	Each (hourly)	U.S. Dollar	45.44	6,453.09	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	142.00	1.00	Each (hourly)	U.S. Dollar	11.07	1,571.23	
1.13.1.2	49,700.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	198,800.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		198,800.00	Each	U.S. Dollar	1.00	198,800.00	
1.13.1.3	3.44 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	4,723.79
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		4,723.79	Each	U.S. Dollar	1.00	4,723.79	
1.13.2	71.00 Each	Remove & Loadout Transformer	3.55	20.00	Detail	U.S. Dollar	113.37	8,049.01
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	35.50	1.00	Each (hourly)	U.S. Dollar	124.54	4,420.99	
L010101	OPERATOR	35.50	1.00	Each (hourly)	U.S. Dollar	56.75	2,014.74	
L060100	GENERAL LABORER	35.50	1.00	Each (hourly)	U.S. Dollar	45.44	1,613.27	
1.13.3	71.00 Each	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	520.00	36,920.00
1.13.3.1	568.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	36,920.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		36,920.00	Each	U.S. Dollar	1.00	36,920.00	
1.13.4	71.00 Each	Remove Foundations To Subgrade	0.99	71.43	Detail	U.S. Dollar	35.74	2,537.37
1.13.4.1	71.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	0.28	250.00	Detail	U.S. Dollar	17.78	1,262.24
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	2.84	1.00	Each (hourly)	U.S. Dollar	45.44	129.06	

Cost Item									
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost	
L010101	OPERATOR		5.68	2.00	Each (hourly)	U.S. Dollar	56.75	322.36	
*REXCAV06C	Excav 100K w/ Hammer		2.84	1.00	Each (hourly)	U.S. Dollar	160.97	457.14	
*REXCAV06A	Excav 100K w/ Bucket & Grapple		2.84	1.00	Each (hourly)	U.S. Dollar	124.54	353.68	
1.13.4.2	71.00 Cubic Yard	Concrete Transport Offsite		0.71	100.00	Detail	U.S. Dollar	17.96	1,275.13
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
RDUTRK06	CAT D350D, 18CY-24CY	7.10	1.00	Each (hourly)	U.S. Dollar	74.29	527.46		
L080940	TEAMSTER	7.10	1.00	Each (hourly)	U.S. Dollar	45.44	322.65		
L010101	OPERATOR	3.55	0.50	Each (hourly)	U.S. Dollar	56.75	201.47		
RFELWH09	CAT 966F LOADER, 4.25CY	3.55	0.50	Each (hourly)	U.S. Dollar	62.97	223.54		
1.14	54,756.00 Cubic Yard	Access Road Removal		109.51	500.00	Detail	U.S. Dollar	11.40	624,003.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
L010101	OPERATOR	2,190.24	2.00	Each (hourly)	U.S. Dollar	56.75	124,303.46		
L060100	GENERAL LABORER	2,190.24	2.00	Each (hourly)	U.S. Dollar	45.44	99,533.92		
L080940	TEAMSTER	2,190.24	2.00	Each (hourly)	U.S. Dollar	45.44	99,533.92		
RDUTRK06	CAT D350D, 18CY-24CY	2,190.24	2.00	Each (hourly)	U.S. Dollar	74.29	162,712.93		
RFELWH09	CAT 966F LOADER, 4.25CY	2,190.24	2.00	Each (hourly)	U.S. Dollar	62.97	137,919.41		
Notes: ***** 35 miles x 16' wide x .5 foot depth *****									
1.15	1.00 Lump Sum	Site Restoration		182.52	0.01	Detail	U.S. Dollar	858,344.93	858,344.93
1.15.1	54,756.00 Cubic Yard	Vegetative Cover		182.52	300.00	Detail	U.S. Dollar	12.74	697,694.93
Notes: ***** Assume that 50% of the topsoil is onsite and available for use *****									
1.15.1.1	27,378.00 Cubic Yard	Topsoil, Delivered		0.00	0.00	Detail	U.S. Dollar	10.00	273,780.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
IMSOIL	Topsoil		13,689.00	Cubic Yard	U.S. Dollar	20.00	273,780.00		
Notes: ***** Assume that 50% of the topsoil required for restoration is bermed and stockpiled *****									
1.15.1.2	54,756.00 Cubic Yard	Placement		182.52	300.00	Detail	U.S. Dollar	7.74	423,914.93
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
L010101	OPERATOR	3,650.40	2.00	Each (hourly)	U.S. Dollar	56.75	207,172.43		
RDOZER08	CAT D6N XL	3,650.40	2.00	Each (hourly)	U.S. Dollar	59.38	216,742.50		
1.15.2	210.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction		0.00	0.00	Detail	U.S. Dollar	765.00	160,650.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
USLANDSCAPE	Landscape Sub		210.00	Acre	U.S. Dollar	765.00	160,650.00		
Notes: ***** 68 acres for roads, 2 acres per turbine *****									
1.16	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)		0.00	0.00	Detail	U.S. Dollar	482,930.90	482,930.90
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
USMARKUP5	5% Markup		9,658,618.00	Each	U.S. Dollar	0.05	482,930.90		
1.17	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)		0.00	0.00	Detail	U.S. Dollar	1,318,401.37	1,318,401.37

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USMARKUP	13% Markup		10,141,549.00	Each	U.S. Dollar	0.13	1,318,401.37	
1.18	1.00 Lump Sum	Scrap Metals Credit	0.00	0.00	Detail	U.S. Dollar	(7,903,300.00)	(7,903,300.00)
1.18.1	150.00 Ton	Scrap Metals Credit - Transformer & Switchyard	0.00	0.00	Detail	U.S. Dollar	(400.00)	(60,000.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		150.00	Ton	U.S. Dollar	(400.00)	(60,000.00)	
1.18.2	10.00 Ton	Scrap Metals Credit - Control Building	0.00	0.00	Detail	U.S. Dollar	(400.00)	(4,000.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		10.00	Ton	U.S. Dollar	(400.00)	(4,000.00)	
1.18.3	18,957.00 Ton	Scrap Metals Credit - WTG	0.00	0.00	Detail	U.S. Dollar	(400.00)	(7,582,800.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		18,957.00	Ton	U.S. Dollar	(400.00)	(7,582,800.00)	
1.18.4	568.00 Ton	Scrap Metals Credit - Pad Mount Transformer	0.00	0.00	Detail	U.S. Dollar	(400.00)	(227,200.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		568.00	Ton	U.S. Dollar	(400.00)	(227,200.00)	
1.18.5	18.00 Ton	Scrap Metals Credit - T Line Structure	0.00	0.00	Detail	U.S. Dollar	(400.00)	(7,200.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		18.00	Ton	U.S. Dollar	(400.00)	(7,200.00)	
1.18.6	0.25 Ton	Scrap Metals Credit - T Line	0.00	0.00	Detail	U.S. Dollar	(400.00)	(100.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		0.25	Ton	U.S. Dollar	(400.00)	(100.00)	
1.18.7	20.00 Ton	Scrap Metals Credit - ADLS	0.00	0.00	Detail	U.S. Dollar	(400.00)	(8,000.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		20.00	Ton	U.S. Dollar	(400.00)	(8,000.00)	
1.18.8	35.00 Ton	Scrap Metals Credit - O&M Building	0.00	0.00	Detail	U.S. Dollar	(400.00)	(14,000.00)
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UODCFERROUS	Ferrous Metal Scrap		35.00	Ton	U.S. Dollar	(400.00)	(14,000.00)	
Report Total:			827.31					3,556,650.47

Category	Total
Labor	1,854,615.47
Rented Equipment	2,141,168.09
Supplies	2,130.00
Materials	470,155.00
Subcontract	6,985,481.91
ODCs	6,400.00
Scrap Credit	(7,903,300.00)

Estimate Summary

TETRA TECH EC, INC.

Job Code: ENGIE North Bend Wind

Description: Decommissioning Estimate

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	NORTH BEND WIND RETIREMENT	827.31	0.00	Detail	U.S. Dollar	11,459,950.47	11,459,950.47
1.1	1.00 Lump Sum	Mob / Demob	5.00	0.20	Detail	U.S. Dollar	911,609.84	911,609.84
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	0.00	Detail	U.S. Dollar	101,500.00	101,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UERNTRLG	Rental Equip Transp-Large		10.00 Each	U.S. Dollar	10,000.00	100,000.00		
UERNTRSM	Rental Equip Transp-Small		10.00 Each	U.S. Dollar	150.00	1,500.00		
1.1.2	1.00 Lump Sum	Site Facilities	0.00	0.00	Detail	U.S. Dollar	2,200.00	2,200.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
UOCONMOB	Connex Box Mob		2.00 Each	U.S. Dollar	300.00	600.00		
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		2.00 Each	U.S. Dollar	800.00	1,600.00		
1.1.3	3.00 Day	Crew Mob & Site Setup	3.00	1.00	Detail	U.S. Dollar	16,581.97	49,745.90
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	600.00	20.00 Each (hourly)	U.S. Dollar	45.44	27,266.58		
L010101	OPERATOR	300.00	10.00 Each (hourly)	U.S. Dollar	56.75	17,026.01		
L080940	TEAMSTER	120.00	4.00 Each (hourly)	U.S. Dollar	45.44	5,453.32		
1.1.4	2.00 Day	Crew Demob & Site Cleanup	2.00	1.00	Detail	U.S. Dollar	16,581.97	33,163.93
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	400.00	20.00 Each (hourly)	U.S. Dollar	45.44	18,177.72		
L010101	OPERATOR	200.00	10.00 Each (hourly)	U.S. Dollar	56.75	11,350.67		
L080940	TEAMSTER	80.00	4.00 Each (hourly)	U.S. Dollar	45.44	3,635.54		
1.1.5	1.00 Lump Sum	Mob-Erection Sub	0.00	0.00	Detail	U.S. Dollar	725,000.00	725,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USERECTMOB	Sub-Erection Mobilization		1.00 Each	U.S. Dollar	725,000.00	725,000.00		
Notes: *****								
Historical pricing from past projects								

1.2	6.00 Month	Site Facilities	0.00	0.00	Detail	U.S. Dollar	2,155.00	12,930.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
URCONNEX	Connex Box		12.00 Month	U.S. Dollar	150.00	1,800.00		
UROFFTRL	Office Trailer -12x60		6.00 Month	U.S. Dollar	500.00	3,000.00		
UO1STAIID	1st Aid Supplies		6.00 Month	U.S. Dollar	300.00	1,800.00		
UOOFFPHN	Monthly Office Phone		6.00 Month	U.S. Dollar	500.00	3,000.00		
UOOFFSUP	Office Supplies(\$/prs/mo)		6.00 Month	U.S. Dollar	55.00	330.00		
UINT	Internet		6.00 Month	U.S. Dollar	200.00	1,200.00		
URPRTAJH	Port-a-John Unit(s) (4)		6.00 Month	U.S. Dollar	300.00	1,800.00		
1.3	24.00 Week	Field Management	144.00	0.17	Detail	U.S. Dollar	18,282.31	438,775.52
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L90FXX02	Field - Proj Superintendent	1,440.00	1.00 Each (hourly)	U.S. Dollar	83.18	119,782.08		
RPUTRK05	F-250 4X4 3/4 TON PICKUP	5,760.00	4.00 Each (hourly)	U.S. Dollar	11.07	63,734.40		
L90FEL00	Field - Engr. Tech	1,440.00	1.00 Each (hourly)	U.S. Dollar	39.57	56,986.59		
L90FXX03	Field - SHSO	1,440.00	1.00 Each (hourly)	U.S. Dollar	89.26	128,540.02		
L90FEJ00	Field - Asst. Engr.	1,440.00	1.00 Each (hourly)	U.S. Dollar	48.43	69,732.43		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.4	1.00 Lump Sum	O&M Building Removal	6.48	0.15	Detail	U.S. Dollar	24,624.55	24,624.55
1.4.1	40.00 Ton	Structure Demo	2.00	20.00	Detail	U.S. Dollar	257.21	10,288.51
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00 Each (hourly)	U.S. Dollar	124.54	2,490.70		
*REXCAV06E	Excav 100K w/ Shear	20.00	1.00 Each (hourly)	U.S. Dollar	185.50	3,709.90		
L010101	OPERATOR	40.00	2.00 Each (hourly)	U.S. Dollar	56.75	2,270.13		
L060100	GENERAL LABORER	40.00	2.00 Each (hourly)	U.S. Dollar	45.44	1,817.77		
1.4.2	320.00 Cubic Yard	Remove Foundations To Subgrade	4.48	71.43	Detail	U.S. Dollar	35.74	11,436.04
1.4.2.1	320.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	1.28	250.00	Detail	U.S. Dollar	17.78	5,688.97
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	12.80	1.00 Each (hourly)	U.S. Dollar	45.44	581.69		
L010101	OPERATOR	25.60	2.00 Each (hourly)	U.S. Dollar	56.75	1,452.89		
*REXCAV06C	Excav 100K w/ Hammer	12.80	1.00 Each (hourly)	U.S. Dollar	160.97	2,060.35		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	12.80	1.00 Each (hourly)	U.S. Dollar	124.54	1,594.05		
1.4.2.2	320.00 Cubic Yard	Concrete Transport Offsite	3.20	100.00	Detail	U.S. Dollar	17.96	5,747.07
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	32.00	1.00 Each (hourly)	U.S. Dollar	74.29	2,377.28		
L080940	TEAMSTER	32.00	1.00 Each (hourly)	U.S. Dollar	45.44	1,454.22		
L010101	OPERATOR	16.00	0.50 Each (hourly)	U.S. Dollar	56.75	908.05		
RFELWH09	CAT 966F LOADER, 4.25CY	16.00	0.50 Each (hourly)	U.S. Dollar	62.97	1,007.52		
1.4.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar	1.00	2,750.00		
Notes: ***** Assumption: 45,000 lbs per load *****								
1.4.4	5.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	30.00	150.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		150.00 Each	U.S. Dollar	1.00	150.00		
Notes: ***** Assumption: 324,016 modules x 60.63 lbs each *****								
1.5	1.00 Lump Sum	ADLS Tower / System Removal	2.55	0.39	Detail	U.S. Dollar	13,644.06	13,644.06
1.5.1	1.00 Each	ADLS Tower / System Removal	1.50	0.67	Detail	U.S. Dollar	8,681.25	8,681.25
1.5.1.1	1.00 Each	Cut / Lower Structure	1.00	1.00	Detail	U.S. Dollar	3,829.61	3,829.61
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	4.00 Each (hourly)	U.S. Dollar	45.44	1,817.77		
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53		
*RXMISC14	MAN LIFT GAS 125ft	10.00	1.00 Each (hourly)	U.S. Dollar	53.52	535.20		
*RXMISC23	GROVE RT 200 TON	10.00	1.00 Each (hourly)	U.S. Dollar	90.91	909.10		
1.5.1.2	1.00 Each	Cut / Size Structure & Loadout	0.50	2.00	Detail	U.S. Dollar	2,101.65	2,101.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	30.00	6.00 Each (hourly)	U.S. Dollar	45.44	1,363.33		
L010101	OPERATOR	5.00	1.00 Each (hourly)	U.S. Dollar	56.75	283.77		
*RXMISC23	GROVE RT 200 TON	5.00	1.00 Each (hourly)	U.S. Dollar	90.91	454.55		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.5.1.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar	1.00	2,750.00		
Notes: ***** Assume 20 ton per steel structure *****								
1.5.2	1.00 Each	Remove Foundations To Subgrade	1.05	0.95	Detail	U.S. Dollar	4,962.81	4,962.81
1.5.2.1	1.00 Each	Excavate / Remove Foundation - Various Depth	1.00	1.00	Detail	U.S. Dollar	4,898.95	4,898.95
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	20.00	2.00 Each (hourly)	U.S. Dollar	45.44	908.89		
L010101	OPERATOR	20.00	2.00 Each (hourly)	U.S. Dollar	56.75	1,135.07		
*REXCAV06C	Excav 100K w/ Hammer	10.00	1.00 Each (hourly)	U.S. Dollar	160.97	1,609.65		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	10.00	1.00 Each (hourly)	U.S. Dollar	124.54	1,245.35		
1.5.2.2	4.00 Cubic Yard	Concrete Transport Offsite	0.05	75.00	Detail	U.S. Dollar	15.96	63.86
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	0.53	1.00 Each (hourly)	U.S. Dollar	74.29	39.62		
L080940	TEAMSTER	0.53	1.00 Each (hourly)	U.S. Dollar	45.44	24.24		
1.6	1.00 Each	MET Tower Removal	0.71	1.42	Detail	U.S. Dollar	3,842.80	3,842.80
1.6.1	1.00 Each	Structure Demo	0.50	2.00	Detail	U.S. Dollar	2,572.13	2,572.13
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	5.00	1.00 Each (hourly)	U.S. Dollar	124.54	622.68		
*REXCAV06E	Excav 100K w/ Shear	5.00	1.00 Each (hourly)	U.S. Dollar	185.50	927.48		
L010101	OPERATOR	10.00	2.00 Each (hourly)	U.S. Dollar	56.75	567.53		
L060100	GENERAL LABORER	10.00	2.00 Each (hourly)	U.S. Dollar	45.44	454.44		
1.6.2	15.00 Cubic Yard	Remove Foundation	0.10	146.00	Detail	U.S. Dollar	48.47	727.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	2.05	2.00 Each (hourly)	U.S. Dollar	45.44	93.38		
L010101	OPERATOR	3.08	3.00 Each (hourly)	U.S. Dollar	56.75	174.92		
*REXCAV06C	Excav 100K w/ Hammer	2.05	2.00 Each (hourly)	U.S. Dollar	160.97	330.75		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	1.03	1.00 Each (hourly)	U.S. Dollar	124.54	127.95		
1.6.3	15.00 Cubic Yard	Concrete Transport Offsite	0.10	146.67	Detail	U.S. Dollar	12.25	183.68
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	1.02	1.00 Each (hourly)	U.S. Dollar	74.29	75.98		
L080940	TEAMSTER	1.02	1.00 Each (hourly)	U.S. Dollar	45.44	46.48		
L010101	OPERATOR	0.51	0.50 Each (hourly)	U.S. Dollar	56.75	29.02		
RFELWH09	CAT 966F LOADER, 4.25CY	0.51	0.50 Each (hourly)	U.S. Dollar	62.97	32.20		
1.6.4	8.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	45.00	360.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		360.00 Each	U.S. Dollar	1.00	360.00		
1.7	1.00 Lump Sum	Substation & Switchyard Removal	22.27	0.04	Detail	U.S. Dollar	205,905.51	205,905.51
1.7.1	1.00 Day	Fence Removal	1.00	1.00	Detail	U.S. Dollar	1,354.33	1,354.33
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar	56.75	567.53		
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar	45.44	454.44		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RBACKH09	Deere 710J BACKHOE, 1.62CY	10.00	1.00	Each (hourly)	U.S. Dollar		33.24	332.35
1.7.2	1.00 Each	Transformer & Switchyard Equip Removal	3.50	0.29	Detail	U.S. Dollar	144,348.46	144,348.46
1.7.2.1	1.00 Each	Oil Removal & Disposal	2.00	0.50	Detail	U.S. Dollar	104,789.07	104,789.07
1.7.2.1.1	1.00 Each	Oil Removal	2.00	0.50	Detail	U.S. Dollar	2,039.07	2,039.07
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	20.00	1.00	Each (hourly)	U.S. Dollar	11.07	221.30	
1.7.2.1.2	25,000.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	100,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		100,000.00	Each	U.S. Dollar	1.00	100,000.00	
1.7.2.1.3	2.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00	Each	U.S. Dollar	1.00	2,750.00	
1.7.2.2	150.00 Ton	Demo & Prepare For Shipment Offsite	1.50	100.00	Detail	U.S. Dollar	198.73	29,809.39
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	15.00	1.00	Each (hourly)	U.S. Dollar	98.82	1,482.23	
*REXCAV06E	Excav 100K w/ Shear	30.00	2.00	Each (hourly)	U.S. Dollar	185.50	5,564.85	
*REXCAV08	Excav 240K w/ Shear	30.00	2.00	Each (hourly)	U.S. Dollar	463.46	13,903.80	
L010101	OPERATOR	60.00	4.00	Each (hourly)	U.S. Dollar	56.75	3,405.20	
L060100	GENERAL LABORER	120.00	8.00	Each (hourly)	U.S. Dollar	45.44	5,453.32	
1.7.2.3	150.00 Ton	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	65.00	9,750.00
1.7.2.3.1	150.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	9,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		9,750.00	Each	U.S. Dollar	1.00	9,750.00	
1.7.3	1.00 Each	Remove Control Building	0.10	10.00	Detail	U.S. Dollar	2,637.29	2,637.29
1.7.3.1	10.00 Ton	Demo & Prepare For Shipment Offsite	0.10	100.00	Detail	U.S. Dollar	198.73	1,987.29
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	1.00	1.00	Each (hourly)	U.S. Dollar	98.82	98.82	
*REXCAV06E	Excav 100K w/ Shear	2.00	2.00	Each (hourly)	U.S. Dollar	185.50	370.99	
*REXCAV08	Excav 240K w/ Shear	2.00	2.00	Each (hourly)	U.S. Dollar	463.46	926.92	
L010101	OPERATOR	4.00	4.00	Each (hourly)	U.S. Dollar	56.75	227.01	
L060100	GENERAL LABORER	8.00	8.00	Each (hourly)	U.S. Dollar	45.44	363.55	
1.7.3.2	10.00 Ton	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	65.00	650.00
1.7.3.2.1	10.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	650.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		650.00	Each	U.S. Dollar	1.00	650.00	
1.7.4	2.00 Day	UG Utility & Ground Removal	2.00	1.00	Detail	U.S. Dollar	1,354.33	2,708.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	20.00	1.00	Each (hourly)	U.S. Dollar	56.75	1,135.07	
L060100	GENERAL LABORER	20.00	1.00	Each (hourly)	U.S. Dollar	45.44	908.89	

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00	Each (hourly)	U.S. Dollar		33.24	664.70
1.7.5	500.00 Cubic Yard	Remove Foundations To Subgrade	7.00	71.43	Detail	U.S. Dollar	35.74	17,868.82
1.7.5.1	500.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	2.00	250.00	Detail	U.S. Dollar	17.78	8,889.02
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	20.00	1.00	Each (hourly)	U.S. Dollar	45.44	908.89	
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13	
*REXCAV06C	Excav 100K w/ Hammer	20.00	1.00	Each (hourly)	U.S. Dollar	160.97	3,219.30	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00	Each (hourly)	U.S. Dollar	124.54	2,490.70	
1.7.5.2	500.00 Cubic Yard	Concrete Transport Offsite	5.00	100.00	Detail	U.S. Dollar	17.96	8,979.80
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	50.00	1.00	Each (hourly)	U.S. Dollar	74.29	3,714.50	
L080940	TEAMSTER	50.00	1.00	Each (hourly)	U.S. Dollar	45.44	2,272.22	
L010101	OPERATOR	25.00	0.50	Each (hourly)	U.S. Dollar	56.75	1,418.83	
RFELWH09	CAT 966F LOADER, 4.25CY	25.00	0.50	Each (hourly)	U.S. Dollar	62.97	1,574.25	
1.7.6	1.00 Lump Sum	Misc. Material Disposal	0.00	0.00	Detail	U.S. Dollar	1,675.00	1,675.00
1.7.6.1	1.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,375.00	Each	U.S. Dollar	1.00	1,375.00	
1.7.6.2	10.00 Ton	Disposal Cost	0.00	0.00	Detail	U.S. Dollar	30.00	300.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		300.00	Each	U.S. Dollar	1.00	300.00	
1.7.7	1.00 Lump Sum	Restore Yard	8.67	0.12	Detail	U.S. Dollar	35,312.96	35,312.96
1.7.7.1	4.00 Acre	Backfill / Regrade	2.00	2.00	Detail	U.S. Dollar	1,692.29	6,769.18
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77	
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13	
REXCAV06B	Gradall - Excavator	20.00	1.00	Each (hourly)	U.S. Dollar	75.73	1,514.57	
*RDOZER08	CAT D6 LGP Dozer	20.00	1.00	Each (hourly)	U.S. Dollar	58.34	1,166.70	
1.7.7.2	2,000.00 Cubic Yard	Vegetative Cover	6.67	300.00	Detail	U.S. Dollar	12.74	25,483.78
1.7.7.2.1	1,000.00 Cubic Yard	Topsoil, Delivered	0.00	0.00	Detail	U.S. Dollar	10.00	10,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
IMSOIL	Topsoil		500.00	Cubic Yard	U.S. Dollar	20.00	10,000.00	
Notes: ***** Assume that 50% of the topsoil required for restoration is bermed and stockpiled adjacent to the substation *****								
1.7.7.2.2	2,000.00 Cubic Yard	Placement	6.67	300.00	Detail	U.S. Dollar	7.74	15,483.78
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L010101	OPERATOR	133.33	2.00	Each (hourly)	U.S. Dollar	56.75	7,567.11	
RDOZER08	CAT D6N XL	133.33	2.00	Each (hourly)	U.S. Dollar	59.38	7,916.67	
1.7.7.3	4.00 Acre	Re-Seed With Native Vegetation	0.00	0.00	Detail	U.S. Dollar	765.00	3,060.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USLANDSCAPE	Landscape Sub		4.00	Acre	U.S. Dollar	765.00	3,060.00	

Cost Item									
CBS Position Code	Quantity	UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.8	1.00	Lump Sum	Transmission Line Removal	4.09	0.24	Detail	U.S. Dollar	20,955.44	20,955.44
1.8.1	2.00	Each	Structure Removal	2.00	1.00	Detail	U.S. Dollar	5,391.45	10,782.90
1.8.1.1	2.00	Each	Cut / Lower Structure	1.00	2.00	Detail	U.S. Dollar	1,914.80	3,829.61
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	4.00	Each (hourly)	U.S. Dollar	45.44	1,817.77		
L010101	OPERATOR	10.00	1.00	Each (hourly)	U.S. Dollar	56.75	567.53		
*RXMISC14	MAN LIFT GAS 125ft	10.00	1.00	Each (hourly)	U.S. Dollar	53.52	535.20		
*RXMISC23	GROVE RT 200 TON	10.00	1.00	Each (hourly)	U.S. Dollar	90.91	909.10		
1.8.1.2	2.00	Each	Cut / Size Structure & Loadout	1.00	2.00	Detail	U.S. Dollar	2,101.65	4,203.29
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	60.00	6.00	Each (hourly)	U.S. Dollar	45.44	2,726.66		
L010101	OPERATOR	10.00	1.00	Each (hourly)	U.S. Dollar	56.75	567.53		
*RXMISC23	GROVE RT 200 TON	10.00	1.00	Each (hourly)	U.S. Dollar	90.91	909.10		
1.8.1.3	2.00	Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		2,750.00	Each	U.S. Dollar	1.00	2,750.00		
Notes: *****									
Assume 9 ton per steel structure									

1.8.2	2.00	Each	Remove Foundations To Subgrade	2.04	0.98	Detail	U.S. Dollar	4,924.73	9,849.45
1.8.2.1	2.00	Each	Excavate / Remove Foundation - Various Depth	2.00	1.00	Detail	U.S. Dollar	4,898.95	9,797.91
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	40.00	2.00	Each (hourly)	U.S. Dollar	45.44	1,817.77		
L010101	OPERATOR	40.00	2.00	Each (hourly)	U.S. Dollar	56.75	2,270.13		
*REXCAV06C	Excav 100K w/ Hammer	20.00	1.00	Each (hourly)	U.S. Dollar	160.97	3,219.30		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	20.00	1.00	Each (hourly)	U.S. Dollar	124.54	2,490.70		
1.8.2.2	3.23	Cubic Yard	Concrete Transport Offsite	0.04	75.00	Detail	U.S. Dollar	15.96	51.55
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	0.43	1.00	Each (hourly)	U.S. Dollar	74.29	31.98		
L080940	TEAMSTER	0.43	1.00	Each (hourly)	U.S. Dollar	45.44	19.56		
1.8.3	0.05	Mile	Conductor Removal	0.05	1.00	Detail	U.S. Dollar	6,461.73	323.09
1.8.3.1	0.05	Mile	Cut / Lower Cable, Size & Loadout	0.05	1.00	Detail	U.S. Dollar	6,136.73	306.84
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	3.00	6.00	Each (hourly)	U.S. Dollar	45.44	136.33		
L010101	OPERATOR	1.00	2.00	Each (hourly)	U.S. Dollar	56.75	56.75		
*RXMISC14	MAN LIFT GAS 125ft	1.00	2.00	Each (hourly)	U.S. Dollar	53.52	53.52		
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	0.50	1.00	Each (hourly)	U.S. Dollar	21.65	10.82		
*RXMISC19	Material Handler	0.50	1.00	Each (hourly)	U.S. Dollar	98.82	49.41		
1.8.3.2	0.25	Ton	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	65.00	16.25
1.8.3.2.1	0.25	Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	16.25
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		16.25	Each	U.S. Dollar	1.00	16.25		
1.9	71.00	Each	Construct & Remove Temporary Crane Pads	94.67	0.75	Detail	U.S. Dollar	7,746.61	550,009.40

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: ***** 60' x 40' Temporary Crane Pad *****								
1.9.1	7,100.00 Ton	Crane Pad 4" Stone 8" depth	35.50	200.00	Detail	U.S. Dollar	35.44	251,608.98
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
M4"STONE	4" Stone		7,100.00 Ton	U.S. Dollar	15.00	106,500.00		
RDOZER06	CAT D5H XL	355.00	1.00 Each (hourly)	U.S. Dollar	43.56	15,462.03		
RROLLR06	CP-563C 84" SMOOTH DRUM	355.00	1.00 Each (hourly)	U.S. Dollar	51.70	18,352.08		
L010101	OPERATOR	710.00	2.00 Each (hourly)	U.S. Dollar	56.75	40,294.88		
USSTONETRK	Sub-Trucking of Stone		7,100.00 Ton	U.S. Dollar	10.00	71,000.00		
1.9.2	5,325.00 Ton	Crane Pad 2" Stone 6" depth	35.50	150.00	Detail	U.S. Dollar	38.92	207,233.98
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USSTONETRK	Sub-Trucking of Stone		5,325.00 Ton	U.S. Dollar	10.00	53,250.00		
L010101	OPERATOR	710.00	2.00 Each (hourly)	U.S. Dollar	56.75	40,294.88		
RDOZER06	CAT D5H XL	355.00	1.00 Each (hourly)	U.S. Dollar	43.56	15,462.03		
RROLLR06	CP-563C 84" SMOOTH DRUM	355.00	1.00 Each (hourly)	U.S. Dollar	51.70	18,352.08		
M2"STONE	Material - 2" Stone		5,325.00 Ton	U.S. Dollar	15.00	79,875.00		
1.9.3	71.00 Each	Remove stone after erection	23.67	3.00	Detail	U.S. Dollar	1,284.03	91,166.44
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDOZER06	CAT D5H XL	236.67	1.00 Each (hourly)	U.S. Dollar	43.56	10,308.02		
RFELWH09	CAT 966F LOADER, 4.25CY	236.67	1.00 Each (hourly)	U.S. Dollar	62.97	14,902.90		
L010101	OPERATOR	473.33	2.00 Each (hourly)	U.S. Dollar	56.75	26,863.25		
L060100	GENERAL LABORER	236.67	1.00 Each (hourly)	U.S. Dollar	45.44	10,755.15		
RDUTRK06	CAT D350D, 18CY-24CY	236.67	1.00 Each (hourly)	U.S. Dollar	74.29	17,581.97		
L080940	TEAMSTER	236.67	1.00 Each (hourly)	U.S. Dollar	45.44	10,755.15		
1.10	71.00 Each	WTG Removal	0.00	0.00	Detail	U.S. Dollar	30,000.00	2,130,000.00
1.10.1	71.00 Each	Remove Top,Nacell, Rotor	0.00	0.00	Detail	U.S. Dollar	20,000.00	1,420,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USERECT1	Sub-Top, Nacelle, Rotor		71.00 Each	U.S. Dollar	20,000.00	1,420,000.00		
1.10.2	71.00 Each	Remove Base & Mid	0.00	0.00	Detail	U.S. Dollar	10,000.00	710,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USERECT	Erection Sub - Base/Mid		71.00 Each	U.S. Dollar	10,000.00	710,000.00		
1.11	71.00 Each	WTG Sizing & Loadout - 2.8 MW, 89 m Tower	80.73	0.88	Detail	U.S. Dollar	41,018.27	2,912,297.09
1.11.1	71.00 Each	Oil Removal & Disposal	14.20	5.00	Detail	U.S. Dollar	386.08	27,412.01
1.11.1.1	71.00 Each	Oil Removal	14.20	5.00	Detail	U.S. Dollar	203.91	14,477.41
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	284.00	2.00 Each (hourly)	U.S. Dollar	45.44	12,906.18		
RPUTRK05	F-250 4X4 3/4 TON PICKUP	142.00	1.00 Each (hourly)	U.S. Dollar	11.07	1,571.23		
1.11.1.2	2,840.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	11,360.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		11,360.00 Each	U.S. Dollar	1.00	11,360.00		
1.11.1.3	1.15 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	1,574.60

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,574.60 Each	U.S. Dollar	1.00	1,574.60		
1.11.2	11,573.00 Ton	Demo & Prepare For Shipment Offsite - Top, Mid & Base	40.47	286.00 Detail	U.S. Dollar	69.49	804,158.73	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	404.65	1.00 Each (hourly)	U.S. Dollar	98.82	39,985.52		
*REXCAV06E	Excav 100K w/ Shear	809.30	2.00 Each (hourly)	U.S. Dollar	185.50	150,121.23		
*REXCAV08	Excav 240K w/ Shear	809.30	2.00 Each (hourly)	U.S. Dollar	463.46	375,078.50		
L010101	OPERATOR	1,618.60	4.00 Each (hourly)	U.S. Dollar	56.75	91,861.05		
L060100	GENERAL LABORER	3,237.20	8.00 Each (hourly)	U.S. Dollar	45.44	147,112.42		
1.11.3	2,272.00 Ton	Demo & Prepare For Shipment Offsite - Hub	7.94	286.00 Detail	U.S. Dollar	69.49	157,871.65	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	79.44	1.00 Each (hourly)	U.S. Dollar	98.82	7,849.92		
*REXCAV06E	Excav 100K w/ Shear	158.88	2.00 Each (hourly)	U.S. Dollar	185.50	29,471.65		
*REXCAV08	Excav 240K w/ Shear	158.88	2.00 Each (hourly)	U.S. Dollar	463.46	73,635.04		
L010101	OPERATOR	317.76	4.00 Each (hourly)	U.S. Dollar	56.75	18,034.07		
L060100	GENERAL LABORER	635.52	8.00 Each (hourly)	U.S. Dollar	45.44	28,880.96		
1.11.4	4,970.00 Ton	Demo & Prepare For Shipment Offsite - Nacelle	17.38	286.00 Detail	U.S. Dollar	69.49	345,344.24	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	173.78	1.00 Each (hourly)	U.S. Dollar	98.82	17,171.70		
*REXCAV06E	Excav 100K w/ Shear	347.55	2.00 Each (hourly)	U.S. Dollar	185.50	64,469.24		
*REXCAV08	Excav 240K w/ Shear	347.55	2.00 Each (hourly)	U.S. Dollar	463.46	161,076.66		
L010101	OPERATOR	695.10	4.00 Each (hourly)	U.S. Dollar	56.75	39,449.53		
L060100	GENERAL LABORER	1,390.21	8.00 Each (hourly)	U.S. Dollar	45.44	63,177.11		
1.11.5	213.00 Ton	Demo & Prepare For Shipment Offsite - Down Tower Assembly	0.74	286.00 Detail	U.S. Dollar	69.49	14,800.47	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*RXMISC19	Material Handler	7.45	1.00 Each (hourly)	U.S. Dollar	98.82	735.93		
*REXCAV06E	Excav 100K w/ Shear	14.90	2.00 Each (hourly)	U.S. Dollar	185.50	2,762.97		
*REXCAV08	Excav 240K w/ Shear	14.90	2.00 Each (hourly)	U.S. Dollar	463.46	6,903.29		
L010101	OPERATOR	29.79	4.00 Each (hourly)	U.S. Dollar	56.75	1,690.69		
L060100	GENERAL LABORER	59.58	8.00 Each (hourly)	U.S. Dollar	45.44	2,707.59		
1.11.6	71.00 Each	Salvage & Recovery	0.00	0.00 Detail	U.S. Dollar	17,355.00	1,232,205.00	
1.11.6.1	18,957.00 Ton	Scrap Trucking Cost	0.00	0.00 Detail	U.S. Dollar	65.00	1,232,205.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		1,232,205.00 Each	U.S. Dollar	1.00	1,232,205.00		
1.11.7	3,479.00 Ton	Blade T&D	0.00	0.00 Detail	U.S. Dollar	95.00	330,505.00	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		226,135.00 Each	U.S. Dollar	1.00	226,135.00		
USDISPOSAL	Disposal Fee's		104,370.00 Each	U.S. Dollar	1.00	104,370.00		
1.12	71.00 Each	WTG Foundation Removal	156.04	0.46 Detail	U.S. Dollar	9,755.22	692,620.91	
1.12.1	1,065.00 Cubic Yard	Remove 13' x 3' Cylindrical Pedestal	7.10	150.00 Detail	U.S. Dollar	47.17	50,240.57	
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	142.00	2.00 Each (hourly)	U.S. Dollar	45.44	6,453.09		

Cost Item								
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010101	OPERATOR		213.00	3.00	Each (hourly)	U.S. Dollar	56.75	12,088.46
*REXCAV06C	Excav 100K w/ Hammer		142.00	2.00	Each (hourly)	U.S. Dollar	160.97	22,857.03
*REXCAV06A	Excav 100K w/ Bucket & Grapple		71.00	1.00	Each (hourly)	U.S. Dollar	124.54	8,841.99
1.12.2	10,366.00 Cubic Yard	Remove Top 2' Of Octagonal Base	71.00	146.00	Detail	U.S. Dollar	48.47	502,405.69
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	1,420.00	2.00	Each (hourly)	U.S. Dollar	45.44	64,530.91	
L010101	OPERATOR	2,130.00	3.00	Each (hourly)	U.S. Dollar	56.75	120,884.64	
*REXCAV06C	Excav 100K w/ Hammer	1,420.00	2.00	Each (hourly)	U.S. Dollar	160.97	228,570.30	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	710.00	1.00	Each (hourly)	U.S. Dollar	124.54	88,419.85	
1.12.3	11,431.00 Cubic Yard	Concrete Transport Offsite	77.94	146.67	Detail	U.S. Dollar	12.25	139,974.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
RDUTRK06	CAT D350D, 18CY-24CY	779.39	1.00	Each (hourly)	U.S. Dollar	74.29	57,900.61	
L080940	TEAMSTER	779.39	1.00	Each (hourly)	U.S. Dollar	45.44	35,418.67	
L010101	OPERATOR	389.69	0.50	Each (hourly)	U.S. Dollar	56.75	22,116.39	
RFELWH09	CAT 966F LOADER, 4.25CY	389.69	0.50	Each (hourly)	U.S. Dollar	62.97	24,538.98	
1.13	71.00 Each	Pad Mount Transformer Removal	18.74	3.79	Detail	U.S. Dollar	3,648.65	259,054.49
1.13.1	71.00 Each	Oil Removal & Disposal	14.20	5.00	Detail	U.S. Dollar	2,979.55	211,548.11
1.13.1.1	71.00 Each	Oil Removal	14.20	5.00	Detail	U.S. Dollar	113.02	8,024.32
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	142.00	1.00	Each (hourly)	U.S. Dollar	45.44	6,453.09	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	142.00	1.00	Each (hourly)	U.S. Dollar	11.07	1,571.23	
1.13.1.2	49,700.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	198,800.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USDISPOSAL	Disposal Fee's		198,800.00	Each	U.S. Dollar	1.00	198,800.00	
1.13.1.3	3.44 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	4,723.79
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		4,723.79	Each	U.S. Dollar	1.00	4,723.79	
1.13.2	71.00 Each	Remove & Loadout Transformer	3.55	20.00	Detail	U.S. Dollar	113.37	8,049.01
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
*REXCAV06A	Excav 100K w/ Bucket & Grapple	35.50	1.00	Each (hourly)	U.S. Dollar	124.54	4,420.99	
L010101	OPERATOR	35.50	1.00	Each (hourly)	U.S. Dollar	56.75	2,014.74	
L060100	GENERAL LABORER	35.50	1.00	Each (hourly)	U.S. Dollar	45.44	1,613.27	
1.13.3	71.00 Each	Salvage & Recovery	0.00	0.00	Detail	U.S. Dollar	520.00	36,920.00
1.13.3.1	568.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	36,920.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
USTRUCKING	Trucking Sub		36,920.00	Each	U.S. Dollar	1.00	36,920.00	
1.13.4	71.00 Each	Remove Foundations To Subgrade	0.99	71.43	Detail	U.S. Dollar	35.74	2,537.37
1.13.4.1	71.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	0.28	250.00	Detail	U.S. Dollar	17.78	1,262.24
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost		
L060100	GENERAL LABORER	2.84	1.00	Each (hourly)	U.S. Dollar	45.44	129.06	

Cost Item									
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost	
L010101	OPERATOR		5.68	2.00	Each (hourly)	U.S. Dollar	56.75	322.36	
*REXCAV06C	Excav 100K w/ Hammer		2.84	1.00	Each (hourly)	U.S. Dollar	160.97	457.14	
*REXCAV06A	Excav 100K w/ Bucket & Grapple		2.84	1.00	Each (hourly)	U.S. Dollar	124.54	353.68	
1.13.4.2	71.00 Cubic Yard	Concrete Transport Offsite		0.71	100.00	Detail	U.S. Dollar	17.96	1,275.13
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
RDUTRK06	CAT D350D, 18CY-24CY	7.10	1.00	Each (hourly)	U.S. Dollar	74.29	527.46		
L080940	TEAMSTER	7.10	1.00	Each (hourly)	U.S. Dollar	45.44	322.65		
L010101	OPERATOR	3.55	0.50	Each (hourly)	U.S. Dollar	56.75	201.47		
RFELWH09	CAT 966F LOADER, 4.25CY	3.55	0.50	Each (hourly)	U.S. Dollar	62.97	223.54		
1.14	54,756.00 Cubic Yard	Access Road Removal		109.51	500.00	Detail	U.S. Dollar	11.40	624,003.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
L010101	OPERATOR	2,190.24	2.00	Each (hourly)	U.S. Dollar	56.75	124,303.46		
L060100	GENERAL LABORER	2,190.24	2.00	Each (hourly)	U.S. Dollar	45.44	99,533.92		
L080940	TEAMSTER	2,190.24	2.00	Each (hourly)	U.S. Dollar	45.44	99,533.92		
RDUTRK06	CAT D350D, 18CY-24CY	2,190.24	2.00	Each (hourly)	U.S. Dollar	74.29	162,712.93		
RFELWH09	CAT 966F LOADER, 4.25CY	2,190.24	2.00	Each (hourly)	U.S. Dollar	62.97	137,919.41		
Notes: ***** 35 miles x 16' wide x .5 foot depth *****									
1.15	1.00 Lump Sum	Site Restoration		182.52	0.01	Detail	U.S. Dollar	858,344.93	858,344.93
1.15.1	54,756.00 Cubic Yard	Vegetative Cover		182.52	300.00	Detail	U.S. Dollar	12.74	697,694.93
Notes: ***** Assume that 50% of the topsoil is onsite and available for use *****									
1.15.1.1	27,378.00 Cubic Yard	Topsoil, Delivered		0.00	0.00	Detail	U.S. Dollar	10.00	273,780.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
IMSOIL	Topsoil		13,689.00	Cubic Yard	U.S. Dollar	20.00	273,780.00		
Notes: ***** Assume that 50% of the topsoil required for restoration is bermed and stockpiled *****									
1.15.1.2	54,756.00 Cubic Yard	Placement		182.52	300.00	Detail	U.S. Dollar	7.74	423,914.93
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
L010101	OPERATOR	3,650.40	2.00	Each (hourly)	U.S. Dollar	56.75	207,172.43		
RDOZER08	CAT D6N XL	3,650.40	2.00	Each (hourly)	U.S. Dollar	59.38	216,742.50		
1.15.2	210.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction		0.00	0.00	Detail	U.S. Dollar	765.00	160,650.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
USLANDSCAPE	Landscape Sub		210.00	Acre	U.S. Dollar	765.00	160,650.00		
Notes: ***** 68 acres for roads, 2 acres per turbine *****									
1.16	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)		0.00	0.00	Detail	U.S. Dollar	482,930.90	482,930.90
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost			
USMARKUP5	5% Markup		9,658,618.00	Each	U.S. Dollar	0.05	482,930.90		
1.17	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)		0.00	0.00	Detail	U.S. Dollar	1,318,401.37	1,318,401.37

Cost Item									
CBS Position Code	Quantity	UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity	UM	Currency	Unit Cost	Total Cost		
USMARKUP	13% Markup	10,141,549.00	Each		U.S. Dollar	0.13	1,318,401.37		
Report Total:			827.31				11,459,950.47		

Category	Total
Labor	1,854,615.47
Rented Equipment	2,141,168.09
Supplies	2,130.00
Materials	470,155.00
Subcontract	6,985,481.91
ODCs	6,400.00