### **Exhibit W**

### **Facility Retirement and Site Restoration**

### Nolin Hills Wind Power Project January 2022

**Prepared for** 



d/b/a Nolin Hills Wind, LLC

Prepared by



Tetra Tech, Inc.



### **Table of Contents**

1.0	Introduction	1
2.0	Applicable Rules and Standards	1
3.0	Estimated Useful Life of the Project – OAR 345-021-0010(1)(w)(A)	1
4.0	Actions to Restore the Site – OAR 345-021-0010(1)(w)(B)	2
5.0	Total Costs, Estimating Methods, and Assumptions – OAR 345-021-0010(1)(w)(C) and (D)	3
6.0	Monitoring Plan – OAR 345-021-0010(1)(w)(E)	5
7.0	Conclusion	5
	List of Tables	
Table V	W-1. Summary of Retirement Costs	3

### **List of Attachments**

Attachment W-1. Estimate of Project Retirement Costs without Scrap Credit

Attachment W-2. Estimate of Project Retirement Costs with Scrap Credit

Attachment W-3. Memorandum to ODOE

### **Acronyms and Abbreviations**

Applicant Nolin Hills Wind, LLC

EFSC or Council Energy Facility Siting Council

kV kilovolt

met tower meteorological data collection tower

MW megawatt

O&M operation and maintenance
 OAR Oregon Administrative Rule
 ODOE Oregon Department of Energy
 Project Nolin Hills Wind Power Project

### 1.0 Introduction

Nolin Hills Wind, LLC (the Applicant) proposes to construct the Nolin Hills Wind Power Project (Project), a wind energy project with a nominal generating capacity of up to approximately 600 megawatts (MW), and up to 373 MW of average energy, in Umatilla County, Oregon. The Project comprises up to 112 wind turbine generators and up to 1,700 acres of solar panels, depending on the turbine model selected as well as final mix of energy generating technologies based on engineering optimization and offtake market trends. The Project will interconnect to the regional grid via either a transmission line leading from the northern Project substation northwest to Cottonwood Substation in Hermiston, or a new 230-kilovolt (kV) transmission line to the proposed Bonneville Power Administration Stanfield Substation, north of the town of Nolin. Other Project components include electrical collection lines, substations, a battery energy storage system, site access roads, one operations and maintenance (O&M) building, meteorological data collection towers (met tower), and temporary construction yards. These facilities are all described in greater detail in Exhibit B.

### 2.0 Applicable Rules and Standards

Exhibit W contains information pertaining to site restoration. This exhibit was prepared pursuant to the Retirement and Financial Assurance standard in Oregon Administrative Rules (OAR) 345-022-0050 and the submittal requirements in OAR 345-021-0010(1)(w) paragraphs (A) through (E).

This exhibit demonstrates that the Project can comply with the approval standard in OAR 345-022-0050:

### OAR 345-022-0050 Retirement and Financial Assurance

*To issue a site certificate, the Council must find that:* 

- (1) The site, taking into account mitigation, can be restored adequately to a useful, non-hazardous condition following permanent cessation of construction or operation of the facility.
- (2) The applicant has a reasonable likelihood of obtaining a bond or letter of credit in a form and amount satisfactory to the Council to restore the site to a useful, non-hazardous condition.

## 3.0 Estimated Useful Life of the Project – OAR 345-021-0010(1)(w)(A)

 $OAR\ 345-021-0010(1)(w)$ . Information about site restoration, providing evidence to support a finding by the Council as required by  $OAR\ 345-022-0050(1)$ . The applicant must include:

 $OAR\ 345-021-0010(1)(w)(A)$  The estimated useful life of the proposed facility;

For financial and engineering purposes, the Project is estimated to have a useful life of at least 30 years. The Project may be repowered or upgraded during or after that period to extend its lifespan. In the case of a facility upgrade, the Applicant would follow the Energy Facility Siting Council's (EFSC or Council) rules for amending the site certificate as defined in OAR Chapter 345, Division 27.

### 4.0 Actions to Restore the Site - OAR 345-021-0010(1)(w)(B)

 $OAR\ 345-021-0010(1)(w)(B)$  Specific actions and tasks to restore the site to a useful, non-hazardous condition;

Prior to decommissioning the Project, the Applicant will obtain the necessary authorization from the appropriate regulatory agencies and landowners. Decommissioning will consist of the following steps:

- Dismantle turbines, towers, met tower, and pad transformers; remove and sell for use or scrap where possible.
- Dismantle solar and battery components.
- Dismantle the O&M Building and substations.
- Dismantle aboveground electrical equipment (collector lines and poles, transmission lines).
- Remove concrete turbine and met tower foundations to a minimum of 3 feet below grade.
- Remove and reclaim Project roads or leave in place if preferred by landowner.
- Restore surface soils to original condition or as agreed with landowner.

Decommissioning measures will occur in roughly the reverse order as construction. Large aboveground structures such as wind turbines, met towers, and solar and battery components will be dismantled and removed. Metal components such as turbine towers, nacelles, and steel components of solar racking structures will have considerable scrap value and will be separated from non-metal components to be sold for re-use or scrap. Non-metal components will be recycled to the extent practicable or disposed of at authorized sites (see Exhibit V). Solar panels frequently have energy generating value after they are removed from large-scale use, and will be sold or donated for re-use where possible; alternatively, they will be recycled or disposed of at an authorized facility.

Electrical components including substations, collector lines, and transmission lines, along with their support structures, will be dismantled and removed for off-site disposal. The battery systems will be dismantled and disposed of in the same manner as routine fluid replacement or battery disposal. If flow batteries are selected, fluid will be drained and transported to an off-site facility for disposal, and containers will be recycled where possible or disposed of at an approved facility. If lithium-ion batteries are selected, self-contained components will be removed and recycled if possible or

disposed of at an approved facility, and containers will be dismantled and removed for off-site recycling or disposal.

Subsurface features including underground collector lines and concrete structures will be removed to a minimum of 3 feet below ground surface or as agreed with the landowner, to allow continued use of the land for agricultural purposes. Land will be regraded and restored in accordance with the revegetation plan. Portions of underground equipment below 3 feet will be left in place.

Access roads will be reclaimed by regrading and removal of road surfaces, to restore to a condition suitable for agricultural practices in accordance with landowner agreements. If the landowner prefers to retain roads, they will be left in place. Reclamation procedures will be based on site-specific requirements and techniques commonly employed at the time the area is to be reclaimed. As appropriate based on intended use of the land following decommissioning, the land will be reseeded in accordance with the Project's approved revegetation plan.

## 5.0 Total Costs, Estimating Methods, and Assumptions – OAR 345-021-0010(1)(w)(C) and (D)

OAR 345-021-0010(1)(w)(C) An estimate, in current dollars, of the total and unit costs of restoring the site to a useful, non-hazardous condition;

A detailed estimate of the costs to retire the Project is provided in Attachment W-1. The Applicant requests that the Council reconsider its position concerning scrap and salvage values as an offset to retirement costs. The Council previously considered scrap and salvage value at a time when the market for recycling these materials was not mature. That is no longer the case, and it is unlikely that the market value of recycled scrap materials will diminish. Without consideration of scrap value, the estimated retirement cost is \$31,474,000. Attachment W-2 provides an estimate of retirement cost with consideration of scrap value. Including scrap value, the Applicant estimates the net cost of retiring the Project and restoring the site is \$21,530,000 . The Applicant's dollar estimate was based on the net cost of retiring a facility consisting of 112 General Electric 3.03-MW turbines along with 820,000 solar panels and related facilities. Table W-1 summarizes the estimated retirement costs.

	· ·
Scenario	General Electric 3.03 MW
Decommissioning Cost Estimate without Scrap Credit	\$31,474,115
Scrap Credit Estimate	\$9,943,992
Adjusted Total	\$21,530,123

Table W-1. Summary of Retirement Costs

 $OAR\ 345-021-0010(1)(w)(D)\ A$  discussion and justification of the methods and assumptions used to estimate site restoration costs; and

The Applicant's cost estimate includes removal of turbines, towers, pad transformers, met towers, solar arrays, battery energy storage system components, collector substations, O&M Building, and aboveground collector and transmission lines; excavation of foundations and underground collector lines down to a depth of 3 feet; and return of soils to preconstruction grade, including the removal and restoration of roadways for the Project. The Applicant made the following assumptions as part of estimating site restoration costs:

- Labor costs are based on U.S. Department of Labor wage determinations and rates published by RS Means. Rates include base wage, fringe, and payroll tax liability, as well as an estimated 10 hours per week at overtime rates.
- Equipment rates are based on RS Means and historical vendor quotes and include fuel and maintenance. Rental equipment, which is typically more expensive than contractor-owned equipment, is assumed.
- Mobilization and demobilization costs were estimated to reflect the cost of equipment and crew mobilization. Temporary facilities will be placed on site to include office trailer, storage units, portolets, first aid supplies, and utilities.
- Restoration includes labor, equipment, and production rates required for each individual task.
- For purposes of estimating costs, it is assumed that roads will be decompacted and reseeded to match the surrounding area and in such a way that they are no longer usable as a road. At the time of Project retirement, the landowner may elect to leave some roads in place, which would be a reduction to the estimated cost.
- Home Office, Project Management, Overhead, and Fee can vary significantly by contractor.
   This estimate includes average costs as a percentage of total cost and consists of 5 percent for Home Office and Project Management, and 13 percent for Overhead and Fee. Contractor Contingency in the amount of 3 percent of total cost also is included.
- Miscellaneous costs such as permits, engineering, signage, fencing, traffic control, utility disconnects, etc. are included as incidental costs.
- Scrap value in Attachment W-2 is calculated at a rate of \$216 per ton based on an analysis of low, high, and average scrap values from 2003 to present. These commodity unit rates will be updated annually over the course of the Project lifetime to account for changes in scrap value over time. To assure that the Oregon Department of Energy (ODOE) has the first interest in the scrap value over other creditors, the Applicant proposes to enter into a security agreement with ODOE granting ODOE a security interest in Project component salvage. This agreement will be a financing statement (Unified Commercial Code filing) that is filed with Umatilla County and Secretary of State. This filing will offer ODOE legal rights to the scrap value to fund the decommissioning should the certificate holder be unable to

- restore the Project. Because some financial partners may object to this term, the filing would contain a clause allowing it to be replaced with alternate decommissioning security for the full amount of decommissioning without salvage value.
- In the event that the Project owner is unable to implement and manage the decommissioning process, the Applicant understands that the ODOE would take on this role. An estimate of \$533,000 has been included to address ODOE's costs to manage potential legal processes related to Project decommissioning as well as oversight of contractor performance. This estimate is equivalent to two Full-Time Equivalent employees for a period of 16 months.

The Applicant's proposed cost estimate will be sufficient to fund the restoration of the Project to a useful, nonhazardous condition. Please see Exhibit M for information on the security the Applicant will provide to cover this amount.

ODOE provided comments on the preliminary Application for Site Certificate regarding the Applicant's approach to estimating Project Management, Future Contingency, and Scrap Value costs. In response to these comments, the Applicant prepared a memorandum providing additional detail on the rationale for including each of these items in the manner described here. That memorandum is provided as Attachment W-3.

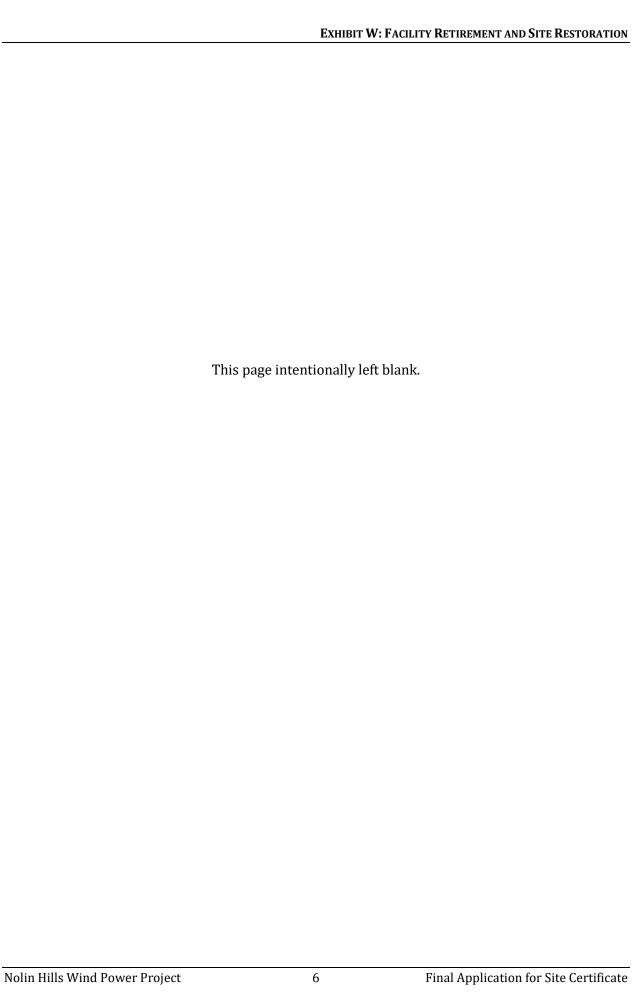
### 6.0 Monitoring Plan – OAR 345-021-0010(1)(w)(E)

OAR 345-021-0010(1)(w)(E) For facilities that might produce site contamination by hazardous materials, a proposed monitoring plan, such as periodic environmental site assessment and reporting, or an explanation why a monitoring plan is unnecessary.

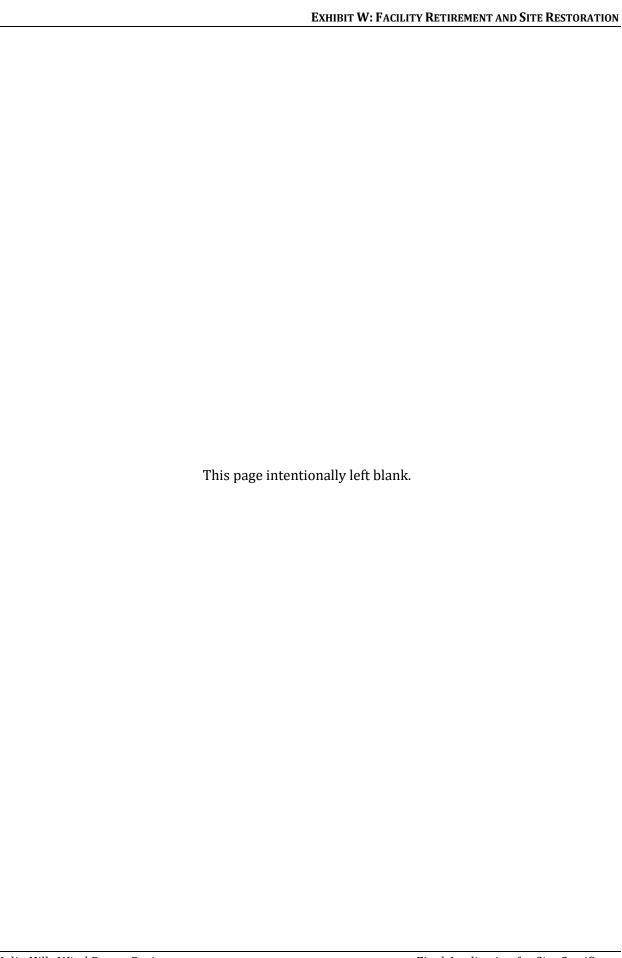
A monitoring plan will not be necessary at this site because the Project will not produce site contamination by hazardous materials.

### 7.0 Conclusion

For the reasons set forth in this Exhibit, the Council may find that the site, taking into account mitigation, can be restored adequately to a useful, non-hazardous condition as described in OAR 345-022-0050. Please see Exhibit M for evidence that the Applicant has a reasonable likelihood of obtaining a bond or letter of credit in the amount estimated to be required to restore the site.



# Attachment W-1. Estimates of Project Retirement Cost without Scrap Credit



Estimate Summary
TETRA TECH EC, INC.

Job Code: Nolin Hills Wind Power Project
Decommissioning Estimate

1.00 Lump Sum   NOLIN HILLS DECOMMISSIONING-   1,939.10   0.00 Detail   U.S. Dollar   31,47.	4,115.16 31,474, 3,000.00 533, it Cost Total 1.00 533, 7,217.85 907, 1,500.00 101, it Cost Total 00.00 100,0 50.00 1,5 2,200.00 2, it Cost Total	Unit Cost 31,474,115.16 533,000.00 Unit Cost 1.00 907,217.85 101,500.00 Unit Cost 10,000.00 150.00 2,200.00 Unit Cost 300.00	U.S. Dollar 31,474,1  U.S. Dollar 533,0  Incy Unit C  Iollar 1  U.S. Dollar 907,2  U.S. Dollar 101,5  Incy Unit C  Iollar 150  Iollar 150  U.S. Dollar 2,2	ail U.S. Do  Currency U.S. Dollar ail U.S. Do  Currency U.S. Dollar U.S. Dollar U.S. Dollar U.S. Dollar	UM/Day Source  0.00 Detail  0.00 Detail  Cu U.S  0.20 Detail  0.00 Detail	1,939.10  0.00  Quantity UM  533,000.00 Each  5.00  0.00  Quantity UM  10.00 Each	HILLS DECOMMISSIONING - & SOLAR - WO/ SCRAP CREDIT  Management Fee (Pass Through  Hours  Demob  ment Mob	1.00 Lump Sum  1.00 Lump Sum  Description  ODOE Management Fe	Position Code  1  1.1  Resource Code UODC
NIND & SOLAR - WO/ SCRAP CREDIT   1.1	3,000.00 533,  it Cost Tota 1.00 533,0 7,217.85 907, 1,500.00 101, it Cost Tota 00.00 100,0 50.00 1,5 2,200.00 2, it Cost Tota	533,000.00  Unit Cost 1.00 907,217.85 101,500.00  Unit Cost 10,000.00 150.00 2,200.00  Unit Cost	U.S. Dollar 533,0  Pincy Unit C  Pollar 1  U.S. Dollar 907,2  U.S. Dollar 101,6  Pincy Unit C  Pollar 150  U.S. Dollar 2,2	Currency U.S. Dollar ail U.S. Do Currency U.S. Dollar U.S. Dollar U.S. Dollar U.S. Dollar	0.00 Detail  Cu U.S  0.20 Detail  0.00 Detail  U.S	0.00  Quantity UM 533,000.00 Each 5.00 0.00  Quantity UM 10.00 Each	& SOLAR - WO/ SCRAP CREDIT  Management Fee (Pass Through  Hours  Demob  ment Mob	1.00 Lump Sum  Description  ODOE Management Fe	Resource Code
Cost   Pace   Code   Description	it Cost Tota 1.00 533,0 7,217.85 907, 1,500.00 101, it Cost Tota 00.00 100,0 50.00 1,5 2,200.00 2, it Cost Tota	Unit Cost 1.00 907,217.85 101,500.00 Unit Cost 10,000.00 150.00 2,200.00 Unit Cost	U.S. Dollar 101,5  U.S. Dollar 101,5  U.S. Dollar 101,5  U.S. Dollar 10,000  U.S. Dollar 150  U.S. Dollar 2,2	Currency U.S. Dollar ail U.S. Do  Currency U.S. Dollar U.S. Dollar U.S. Dollar	U.S 0.20 Detail 0.00 Detail U.S	Quantity UM 533,000.00 Each 5.00 0.00  Quantity UM 10.00 Each	Hours  Demob  ment Mob	Description ODOE Management Fe	Resource Code
	1.00 533,0 7,217.85 907, 1,500.00 101, it Cost Tota 00.00 100,0 50.00 1,5 2,200.00 2, it Cost Tota	1.00 907,217.85 101,500.00 <b>Unit Cost</b> 10,000.00 150.00 2,200.00 <b>Unit Cost</b>	U.S. Dollar   907,2	U.S. Dollar ail U.S. Do  Currency U.S. Dollar U.S. Dollar	U.S 0.20 Detail 0.00 Detail Cu	533,000.00 Each 5.00 0.00  Quantity UM 10.00 Each	Demob ment Mob	ODOE Management Fe	UODC
1.2	7,217.85 907, 1,500.00 101, it Cost Tota 00.00 100,0 50.00 1,5 2,200.00 2, it Cost Tota	907,217.85 101,500.00 <b>Unit Cost</b> 10,000.00 150.00 2,200.00 <b>Unit Cost</b>	U.S. Dollar 907,2  U.S. Dollar 101,5  ency Unit C  tollar 10,000  tollar 150  U.S. Dollar 2,2	ail U.S. Do ail U.S. Do Currency U.S. Dollar U.S. Dollar	0.20 Detail 0.00 Detail Cu	5.00 0.00 <b>Quantity UM</b> 10.00 Each	ment Mob	1.00 Lump Sum	1
1.2.1	1,500.00 101, it Cost Tota 00.00 100,0 50.00 1,5 2,200.00 2, it Cost Tota	101,500.00  Unit Cost 10,000.00 150.00 2,200.00  Unit Cost	U.S. Dollar 101,5  Pincy Unit C  Pollar 10,000  Pollar 150  U.S. Dollar 2,2	Currency U.S. Dollar U.S. Dollar	0.00 Detail	0.00  Quantity UM  10.00 Each	ment Mob	<u>'</u>	1.2
Notes	it Cost Tota 00.00 100,0 50.00 1,5 2,200.00 2,	Unit Cost 10,000.00 150.00 2,200.00 Unit Cost	ollar 10,000 ollar 150 U.S. Dollar 2,2	Currency U.S. Dollar U.S. Dollar	Cu U.S	Quantity UM 10.00 Each		1.00 Lump Sum	
DERNTRLG	00.00 100,0 50.00 1,5 2,200.00 2, it Cost Total	10,000.00 150.00 2,200.00 Unit Cost	10,000	U.S. Dollar U.S. Dollar	U.S	10.00 Each	Hours		1.2.1
Rental Equip Transp-Small   10.00 Each   U.S. Dollar   15	50.00 1,5 2,200.00 2, it Cost Total	150.00 2,200.00 Unit Cost	U.S. Dollar 2,2	U.S. Dollar				Description	Resource Code
1.2.2   1.00 Lump Sum   Site Facilities   0.00   0.00 Detail   U.S. Dollar   2.00	2,200.00 2,	2,200.00 Unit Cost	U.S. Dollar 2,2		U.S			Rental Equip Transp-La	UERNTRLG
Notest	t Cost Tota	Unit Cost	·	ail US Do		10.00 Each		Rental Equip Transp-S	UERNTRSM
UOCONMOB			ency Unit C	u 0.0. D.	0.00 Detail	0.00	acilities	1.00 Lump Sum	1.2.2
1.2.3   3.00 Day   Crew Mob & Site Setup   3.00   1.00 Detail   U.S. Dollar   18	20.00	300.00		Currency	Cı	Quantity UM	Hours	Description	Resource Code
1.2.3   3.00 Day   Crew Mob & Site Setup   3.00   1.00 Detail   U.S. Dollar   15	00.00	300.00	ollar 300	U.S. Dollar	U.S	2.00 Each		Connex Box Mob	UOCONMOB
Resource Code         Description         Hours         Quantity UM         Currency         Unit           L060100         GENERAL LABORER         600.00         20.00 Each (hourly)         U.S. Dollar         4           L010101         OPERATOR         300.00         10.00 Each (hourly)         U.S. Dollar         5           L080940         TEAMSTER         120.00         4.00 Each (hourly)         U.S. Dollar         4           1.2.4         2.00 Day         Crew Demob & Site Cleanup         2.00         1.00 Detail         U.S. Dollar         1           Resource Code         Description         Hours         Quantity UM         Currency         Unit           L060100         GENERAL LABORER         400.00         20.00 Each (hourly)         U.S. Dollar         4           L010101         OPERATOR         200.00         10.00 Each (hourly)         U.S. Dollar         4           L080940         TEAMSTER         80.00         4.00 Each (hourly)         U.S. Dollar         7           1.2.5         1.00 Lump Sum         Mob-Erection Sub         0.00         0.00 Detail         U.S. Dollar         725,00           Resource Code         Description         Hours         Quantity UM         Currency         Unit	00.00 1,6	800.00	ollar 800	U.S. Dollar	U.S	2.00 Each		Trailer Trnsp/Setup/Trd	UOTRLTRN
L060100   GENERAL LABORER   600.00   20.00 Each (hourly)   U.S. Dollar   4	5,703.57 47,	15,703.57	U.S. Dollar 15,7	ail U.S. Do	1.00 Detail	3.00	Mob & Site Setup	3.00 Day	1.2.3
L0101011	t Cost Tota	Unit Cost	ency Unit C	Currency	Cı	Quantity UM	Hours	Description	Resource Code
L080940         TEAMSTER         120.00         4.00 Each (hourly)         U.S. Dollar         4           1.2.4         2.00 Day         Crew Demob & Site Cleanup         2.00         1.00 Detail         U.S. Dollar         15           Resource Code         Description         Hours         Quantity UM         Currency         Unit           L060100         GENERAL LABORER         400.00         20.00 Each (hourly)         U.S. Dollar         4           L010101         OPERATOR         200.00         10.00 Each (hourly)         U.S. Dollar         5           L080940         TEAMSTER         80.00         4.00 Each (hourly)         U.S. Dollar         4           1.2.5         1.00 Lump Sum         Mob-Erection Sub         0.00         0.00 Detail         U.S. Dollar         725           Resource Code         Description         Hours         Quantity UM         Currency         Unit           USERECTMOB         Sub-Erection Mobilization         1.00 Each         U.S. Dollar         725,00           Notes:         ************************************	44.04 26,4	44.04	ollar 44	U.S. Dollar	(hourly) U.S	20.00 Each	600.00	GENERAL LABORER	L060100
1.2.4         2.00 Day         Crew Demob & Site Cleanup         2.00         1.00 Detail         U.S. Dollar         18           Resource Code         Description         Hours         Quantity UM         Currency         Unit           L060100         GENERAL LABORER         400.00         20.00 Each (hourly)         U.S. Dollar         4           L010101         OPERATOR         200.00         10.00 Each (hourly)         U.S. Dollar         5           L080940         TEAMSTER         80.00         4.00 Each (hourly)         U.S. Dollar         4           1.2.5         1.00 Lump Sum         Mob-Erection Sub         0.00         0.00 Detail         U.S. Dollar         725           Resource Code         Description         Hours         Quantity UM         Currency         Unit           USERECTMOB         Sub-Erection Mobilization         1.00 Each         U.S. Dollar         725,00           Notes:         ***********************************	51.35 15,4	51.35	ollar 51	U.S. Dollar	(hourly) U.S	10.00 Each	300.00	OPERATOR	L010101
Resource Code         Description         Hours         Quantity UM         Currency         Unit           L060100         GENERAL LABORER         400.00         20.00 Each (hourly)         U.S. Dollar         400.00         20.00 Each (hourly)         U.S. Dollar         400.00 Each (hourly)         U.S. Dollar <t< td=""><td>44.04 5,2</td><td>44.04</td><td>ollar 44</td><td>U.S. Dollar</td><td>(hourly) U.S</td><td>4.00 Each</td><td>120.00</td><td>TEAMSTER</td><td>_080940</td></t<>	44.04 5,2	44.04	ollar 44	U.S. Dollar	(hourly) U.S	4.00 Each	120.00	TEAMSTER	_080940
L060100   GENERAL LABORER   400.00   20.00 Each (hourly)   U.S. Dollar   400.00   20.00 Each   20.00 Each (hourly)   U.S. Dollar   400.00   20.00 Each (hourly)   U.S. Dollar   400.00   20.00 Each   20.00 Each (hourly)   U.S. Dollar   20.00   20.00 Each   20.00 Each (hourly)   20.00 Each   20	5,703.57 31,	15,703.57	U.S. Dollar 15,7	ail U.S. Do	1.00 Detail	2.00	Demob & Site Cleanup	2.00 Day	1.2.4
L0101011         OPERATOR         200.00         10.00 Each (hourly)         U.S. Dollar         5           L080940         TEAMSTER         80.00         4.00 Each (hourly)         U.S. Dollar         4           1.2.5         1.00 Lump Sum         Mob-Erection Sub         0.00         0.00 Detail         U.S. Dollar         725           Resource Code         Description         Hours         Quantity UM         Currency         Unit           USERECTMOB         Sub-Erection Mobilization         1.00 Each         U.S. Dollar         725,00           Notes:	t Cost Tota	Unit Cost	ency Unit C	Currency	Cı	Quantity UM	Hours	Description	Resource Code
L080940         TEAMSTER         80.00         4.00 Each (hourly)         U.S. Dollar         4.00 Each (hourly)         U.S. Dollar         4.00 Each (hourly)         U.S. Dollar         7.25           Resource Code         Description         Hours         Quantity UM         Currency         Unit           USERECTMOB         Sub-Erection Mobilization         1.00 Each         U.S. Dollar         725,00           Notes:         ************************************	44.04 17,6	44.04	ollar 44	U.S. Dollar	(hourly) U.S	20.00 Each	400.00	GENERAL LABORER	L060100
1.2.5 1.00 Lump Sum Mob-Erection Sub 0.00 0.00 Detail U.S. Dollar 729  Resource Code Description Hours Quantity UM Currency Unit  USERECTMOB Sub-Erection Mobilization 1.00 Each U.S. Dollar 725,00  Notes:	51.35 10,2	51.35	ollar 51	U.S. Dollar	(hourly) U.S	10.00 Each	200.00	OPERATOR	L010101
Resource Code Description Hours Quantity UM Currency Unit  USERECTMOB Sub-Erection Mobilization 1.00 Each U.S. Dollar 725,00  Notes:	44.04 3,5	44.04	ollar 44	U.S. Dollar	(hourly) U.S	4.00 Each	80.00	TEAMSTER	_080940
USERECTMOB Sub-Erection Mobilization 1.00 Each U.S. Dollar 725,00  Notes: ************************************	5,000.00 725,	725,000.00	U.S. Dollar 725,0	ail U.S. Do	0.00 Detail	0.00	rection Sub	1.00 Lump Sum	1.2.5
Notes: ************************************	t Cost Tota	Unit Cost	ency Unit C	Currency	Cı	Quantity UM	Hours	Description	Resource Code
NOTES.	00.00 725,0	725,000.00	ollar 725,000	U.S. Dollar	U.S	1.00 Each		Sub-Erection Mobilizati	USERECTMOB
HISTORICAL PRICING From past projects									Notes.
								oncai pricing from past projects	HISTO ******
1.3 12.00 Month Site Facilities 0.00 0.00 Detail U.S. Dollar	2,155.00 25,	2,155.00	U.S. Dollar 2,1	ail U.S. Do	0.00 Detail	0.00	acilities	12.00 Month	1.3
Resource Code Description Hours Quantity UM Currency Unit		Unit Cost	ency Unit C	Currency	Cı	Quantity UM	Hours	Description	Resource Code
URCONNEX Connex Box 24.00 Month U.S. Dollar 15	t Cost Tota	150.00	ollar 150	U.S. Dollar	n U.S	24.00 Month		Connex Box	URCONNEX
UROFFTRL Office Trailer -12x60 12.00 Month U.S. Dollar 50		500.00	ollar 500	U.S. Dollar	u.9	12.00 Month		Office Trailer -12x60	JROFFTRL
JO1STAID 1st Aid Supplies 12.00 Month U.S. Dollar 30	50.00 3,6	300.00	ollar 300	U.S. Dollar	u.9	12.00 Month		1st Aid Supplies	JO1STAID
JOOFFPHN Monthly Office Phone 12.00 Month U.S. Dollar 50	50.00 3,6	000.00	ollar 500	U.S. Dollar	n U.S	12.00 Month		Monthly Office Phone	JOOFFPHN
JOOFFSUP Office Supplies(\$/prs/mo) 12.00 Month U.S. Dollar	50.00 3,6 00.00 6,0 00.00 3,6	500.00		ILS Dollar	n U.S	12.00 Month		Office Supplies(\$/prs/m	JOOFFSUP
JINT Internet 12.00 Month U.S. Dollar 20	50.00 3,6 00.00 6,0 00.00 3,6 00.00 6,0		oliar 55	O.O. Dollar		12.00 Month			IINIT

Resource Code

URPRTAJH

1.4

Port-a-John Unit(s) (4)

Field Management

52.00 Week

Description

Hours

12.00 Month

312.00

**Quantity UM** 

U.S. Dollar

Currency

U.S. Dollar

0.17 Detail

3,600.00

**Total Cost** 

1,572,787.15

300.00

**Unit Cost** 

30,245.91

Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.5.1	784.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	3.14	250.00	Detail	U.S. Dollar	17.29	13,554.73
1.5.5	784.00 Cubic Yard	Remove Foundations To Subgrade	10.98	71.43	Detail	U.S. Dollar	34.84	27,312.78
RBACKH09	Deere 710J BACKHOE	E, 1.62CY 40.00	1.00 Each	(hourly)	U.S. [	Dollar	33.24	1,329.40
L060100	GENERAL LABORER	40.00	1.00 Each		U.S. [		44.04	1,761.49
L010101	OPERATOR	40.00	1.00 Each	(hourly)	U.S. I	-	51.35	2,053.85
Resource Code	Description	Hours	Quantity UM		Curr	encv	Unit Cost	Total Cost
1.5.4	4.00 Day	UG Utility & Ground Removal	4.00	1.00	Detail	U.S. Dollar	1,286.19	5,144.74
USTRUCKING	Trucking Sub		1,300.00 Each		U.S. I		1.00	1,300.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.3.2	20.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	1,300.00
1.5.3.1	20.00 Ton	Demo & Prepare For Shipment Offsite	0.20	100.00	Detail	U.S. Dollar	195.44	3,908.82
1.5.3	2.00 Each	Remove Control Building	0.20	10.00	Detail	U.S. Dollar	2,604.41	5,208.82
USTRUCKING	Trucking Sub		19,500.00 Each		U.S. [	Dollar	1.00	19,500.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.3	300.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	19,500.00
1.5.2.2	300.00 Ton	Demo & Prepare For Shipment Offsite	3.00	100.00	Detail	U.S. Dollar	102.66	30,798.35
USTRUCKING	Trucking Sub		5,500.00 Each		U.S. [	Dollar	1.00	5,500.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.1.3	4.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	5,500.00
USDISPOSAL	Disposal Fee's		200,000.00 Each		U.S. [	Dollar	1.00	200,000.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.1.2	50,000.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	200,000.00
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP 40.00	1.00 Each	(hourly)	U.S. [	Dollar	11.07	442.60
L060100	GENERAL LABORER	80.00	2.00 Each	(hourly)	U.S. [	Dollar	44.04	3,522.98
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.1.1	2.00 Each	Oil Removal	4.00	0.50	Detail	U.S. Dollar	1,982.79	3,965.58
1.5.2.1	2.00 Each	Oil Removal & Disposal	4.00	0.50	Detail	U.S. Dollar	104,732.79	209,465.58
1.5.2	2.00 Each	Transformer & Switchyard Equip Removal	7.00	0.29	Detail	U.S. Dollar	129,881.96	259,763.93
RBACKH09	Deere 710J BACKHOE		1.00 Each	(hourly)	U.S. [	Dollar	33.24	664.70
L060100	GENERAL LABORER	20.00	1.00 Each	(hourly)	U.S. [	Dollar	44.04	880.75
L010101	OPERATOR	20.00	1.00 Each	(hourly)	U.S. [		51.35	1,026.93
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.1	2.00 Day	Fence Removal	2.00		Detail	U.S. Dollar	1,286.19	2,572.37
1.5	2.00 Each	Substation & Switchyard Removal	32.84	` ,,	Detail	U.S. Dollar	168,836.05	337,672.10
L90FXX03 L90FEJ00	Field - SHSO Field - Asst. Engr.	6,240.00 6,240.00	2.00 Each 2.00 Each	. ,,	U.S. I U.S. I		89.26 48.43	557,006.74 302,173.87
L90FEL00	Field - Engr. Tech	6,240.00	2.00 Each	. ,,	1.8.U		39.57	246,941.90
RPUTRK05	F-250 4X4 3/4 TON PIO		6.00 Each	. ,,	U.S. [		11.07	207,136.80
L90FXX02	Field - Proj Superintend	dent 3,120.00	1.00 Each	(hourly)	U.S. [	Dollar	83.18	259,527.84
Position Code	Quantity UM	Description	Days	UM/Day		Currency	Unit Cost	Total Cost
CBS		Cost It	leiπ		Cost			
		Cost It	em .					

			Cost I	tem					
CBS Position Code	Quantity UM	Description		Days	UM/Day S	Cost Source	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER		31.36	1.00 Each	(hourly)	U.S.	Dollar	44.04	1,381.01
L010101	OPERATOR		62.72	2.00 Each	(hourly)	U.S.	Dollar	51.35	3,220.44
*REXCAV06C	Excav 100K w/ Hamm	er	31.36	1.00 Each	(hourly)	U.S.	Dollar	160.97	5,047.86
*REXCAV06A	Excav 100K w/ Bucke	t & Grapple	31.36	1.00 Each	(hourly)	U.S.	Dollar	124.54	3,905.42
1.5.5.2	784.00 Cubic Yard	Concrete Transport Offsi	te	7.84	100.00 [	Detail	U.S. Dollar	17.55	13,758.06
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	CY	78.40	1.00 Each	(hourly)	U.S.	Dollar	74.29	5,824.34
L080940	TEAMSTER		78.40	1.00 Each	(hourly)	U.S.	Dollar	44.04	3,452.52
L010101	OPERATOR		39.20	0.50 Each	(hourly)	U.S.	Dollar	51.35	2,012.77
RFELWH09	CAT 966F LOADER, 4	1.25CY	39.20	0.50 Each	(hourly)	U.S.	Dollar	62.97	2,468.42
1.5.6	2.00 Each	Misc. Material Disposal		0.00	0.00	Detail	U.S. Dollar	1,675.00	3,350.00
1.5.6.1	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		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			2,750.00 Each		U.S.	Dollar	1.00	2,750.00
1.5.6.2	20.00 Ton	Disposal Cost		0.00	0.00	Detail	U.S. Dollar	30.00	600.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			600.00 Each		U.S.	Dollar	1.00	600.00
1.5.7	2.00 Each	Restore Yard		8.67	0.23 [	Detail	U.S. Dollar	17,159.73	34,319.46
1.5.7.1	4.00 Acre	Backfill / Regrade		2.00	2.00 [	Detail	U.S. Dollar	1,624.15	6,496.62
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		40.00	2.00 Each	(hourly)	U.S.	Dollar	44.04	1,761.49
L010101	OPERATOR		40.00	2.00 Each	(hourly)	U.S.	Dollar	51.35	2,053.85
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
1.5.7.2	2,000.00 Cubic Yard	Vegetative Cover		6.67	300.00	Detail	U.S. Dollar	12.38	24,762.84
1.5.7.2.1	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		Curr	ency	Unit Cost	Total Cost
IMSOIL	Topsoil			500.00 Cubic	Yard	U.S.	Dollar	20.00	10,000.00
Ass	ume that 50% of the topsoil re	quired for restoration							
1.5.7.2.2	2,000.00 Cubic Yard	Placement		6.67	300.00 [	Detail	U.S. Dollar	7.38	14,762.84
Resource Code	Description		Hours	Quantity UM		Curi	ency	Unit Cost	Total Cost
L010101	OPERATOR		133.33	2.00 Each	(hourly)	U.S.	Dollar	51.35	6,846.17
RDOZER08	CAT D6N XL		133.33	2.00 Each	(hourly)	U.S.	Dollar	59.38	7,916.67
1.5.7.3	4.00 Acre	Re-Seed With Native Ve	getation	0.00	0.00 [	Detail	U.S. Dollar	765.00	3,060.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub			4.00 Acre		U.S.	Dollar	765.00	3,060.00
1.6	112.00 Each	Construct & Remove Ten	nporary Crane	149.33	0.75 [	Detail	U.S. Dollar	7,593.04	850,420.82
60'	x 40' Temporary Crane Pad								
1.6.1	11,200.00 Ton	Crane Pad 4" Stone 8" de	epth	56.00	200.00	Detail	U.S. Dollar	34.90	390,848.42

			Cost	Item					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description		Hours	Quantity UM		Currei	ncv	Unit Cost	Total Cost
M4"STONE	4" Stone			11,200.00 Ton		U.S. Do		15.00	168,000.00
RDOZER06	CAT D5H XL		560.00	1.00 Each	(hourly)	U.S. Do	ollar	43.56	24,390.80
RROLLR06	CP-563C 84" SMOOTH	H DRUM	560.00	1.00 Each	(hourly)	U.S. Do	ollar	51.70	28,949.76
L010101	OPERATOR		1,120.00	2.00 Each	(hourly)	U.S. Do	ollar	51.35	57,507.86
USSTONETRK	Sub-Trucking of Stone			11,200.00 Ton		U.S. Do	ollar	10.00	112,000.00
1.6.2	8,400.00 Ton	Crane Pad 2" Stone 6'	depth	56.00	150.00	Detail	U.S. Dollar	38.20	320,848.42
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USSTONETRK	Sub-Trucking of Stone			8,400.00 Ton		U.S. Do	ollar	10.00	84,000.00
L010101	OPERATOR		1,120.00	2.00 Each	(hourly)	U.S. Do	ollar	51.35	57,507.86
RDOZER06	CAT D5H XL		560.00	1.00 Each	(hourly)	U.S. Do	ollar	43.56	24,390.80
RROLLR06	CP-563C 84" SMOOTH	H DRUM	560.00	1.00 Each	(hourly)	U.S. Do	ollar	51.70	28,949.76
M2"STONE	Material - 2" Stone			8,400.00 Ton		U.S. Do	ollar	15.00	126,000.00
1.6.3	112.00 Each	Remove stone after er	ection	37.33	3.00	Detail	U.S. Dollar	1,238.61	138,723.98
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
RDOZER06	CAT D5H XL		373.33	1.00 Each	` ,	U.S. Do	ollar	43.56	16,260.53
RFELWH09	CAT 966F LOADER, 4	.25CY	373.33	1.00 Each	(hourly)	U.S. Do	ollar	62.97	23,508.80
L010101	OPERATOR		746.67	2.00 Each	(hourly)	U.S. Do	ollar	51.35	38,338.57
L060100	GENERAL LABORER		373.33	1.00 Each	(hourly)	U.S. Do	ollar	44.04	16,440.57
RDUTRK06	CAT D350D, 18CY-240	CY	373.33	1.00 Each	` ,,	U.S. Do		74.29	27,734.93
L080940	TEAMSTER		373.33	1.00 Each	(hourly)	U.S. Do	ollar	44.04	16,440.57
1.7	112.00 Each	WTG Removal		0.00	0.00	Detail	U.S. Dollar	30,000.00	3,360,000.00
1.7.1	112.00 Each	Remove Top,Nacell, R	lotor	0.00	0.00	Detail	U.S. Dollar	20,000.00	2,240,000.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USERECT1	Sub-Top, Nacelle, Roto	or		112.00 Each	l	U.S. Do	ollar	20,000.00	2,240,000.00
1.7.2	112.00 Each	Remove Base & Mid		0.00	0.00	Detail	U.S. Dollar	10,000.00	1,120,000.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USERECT	Erection Sub - Base/M	lid		112.00 Each		U.S. Do	ollar	10,000.00	1,120,000.00
1.8	112.00 Each	WTG Sizing & Loadou	t	134.40	0.83	Detail	U.S. Dollar	31,754.04	3,556,452.87
1.8.1	112.00 Each	Oil Removal & Disposa	al	22.40	5.00	Detail	U.S. Dollar	262.13	29,358.83
1.8.1.1	112.00 Each	Oil Removal		22.40	5.00	Detail	U.S. Dollar	198.28	22,207.25
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
L060100	GENERAL LABORER		448.00	2.00 Each	(hourly)	U.S. Do	ollar	44.04	19,728.69
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	224.00	1.00 Each	(hourly)	U.S. Do	ollar	11.07	2,478.56
1.8.1.2	1,456.00 Gallon	Oil Disposal		0.00	0.00	Detail	U.S. Dollar	4.00	5,824.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		<u> </u>	5,824.00 Each	1	U.S. Do	ollar	1.00	5,824.00
1.8.1.3	0.97 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	1,327.59
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			1,327.59 Each		U.S. Do	ollar	1.00	1,327.59
1.8.2	32,032.00 Ton	Demo & Prepare For S	Shipment Offsite	112.00	286.00	Detail	U.S. Dollar	32.49	1,040,694.03
1.8.3	4,256.00 Ton	Blade T&D		0.00	0.00	Detail	U.S. Dollar	95.00	404,320.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			276,640.00 Each		U.S. Do	ollar	1.00	276,640.00
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CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cos
JSDISPOSAL	Disposal Fee's			127,680.00 Each		U.S. [	Oollar	1.00	127,680.00
1.8.4	32,032.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	65.00	2,082,080.00
Resource Code	Description		Hours	Quantity UM		Curr	encv	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		110410	2,082,080.00 Each		U.S. [		1.00	2,082,080.00
1.9	112.00 Each	WTG Foundation Rem	noval	259.82	0.43	Detail	U.S. Dollar	10,026.58	1,122,976.45
1.9.1	2.240.00 Cubic Yard	Remove Cylindrical Pe		14.93	150.00	Detail	U.S. Dollar	45.91	102,827.71
Resource Code	,	Tromove Cymranical I	Hours		100.00			Unit Cost	Total Cost
L060100	Description  GENERAL LABORER	<u> </u>	298.67	Quantity UM 2.00 Each	(bourly)	U.S. [		44.04	13,152.46
L000100 L010101	OPERATOR	`	448.00	3.00 Each	, ,,	U.S. [		51.35	23,003.14
*REXCAV06C	Excav 100K w/ Hamn	oor	298.67	2.00 Each	, ,,	U.S. [		160.97	48,074.88
*REXCAV06A	Excav 100K w/ Harrin		149.33	1.00 Each	, ,,	U.S. [		124.54	18,597.23
1.9.2	16,800.00 Cubic Yard	Remove Top 2' Of Oct		115.07	146.00		U.S. Dollar	47.16	792,336.79
	,	1101101010101			110.00				
Resource Code	Description	<u> </u>	Hours	Quantity UM	/h a rl \	Curr		Unit Cost	Total Cost
L060100	GENERAL LABOREF	ζ	2,301.37	2.00 Each				44.04	101,346.00
L010101 *DEXCAVOSC	OPERATOR		3,452.05	3.00 Each 2.00 Each	` ,,	U.S. [ U.S. [		51.35 160.97	177,250.24
*REXCAV06C	Excav 100K w/ Hamn		2,301.37		` ,,				370,440.00
*REXCAV06A	Excav 100K w/ Bucke		1,150.68	1.00 Each	` ',	U.S. [		124.54	143,300.55
1.9.3	19,040.00 Cubic Yard	Concrete Transport Of	TSITE	129.82	146.67	Detail	U.S. Dollar	11.96	227,811.96
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-2	4CY	1,298.18	1.00 Each	(hourly)	U.S. [	Oollar	74.29	96,441.93
L080940	TEAMSTER		1,298.18	1.00 Each	,	U.S. [	Oollar	44.04	57,168.36
L010101	OPERATOR		649.09	0.50 Each	(hourly)	U.S. [	Oollar	51.35	33,328.42
RFELWH09	CAT 966F LOADER,	4.25CY	649.09	0.50 Each	(hourly)	U.S. [	Oollar	62.97	40,873.25
1.10	112.00 Each	Pad Mount Transform	er Removal	29.57	3.79	Detail	U.S. Dollar	1,646.12	184,365.69
1.10.1	112.00 Each	Oil Removal & Dispos	al	22.40	5.00	Detail	U.S. Dollar	981.33	109,908.42
1.10.1.1	112.00 Each	Oil Removal		22.40	5.00	Detail	U.S. Dollar	110.20	12,342.90
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER	?	224.00	1.00 Each	(hourly)	U.S. [	Oollar	44.04	9,864.34
RPUTRK05	F-250 4X4 3/4 TON F	PICKUP	224.00	1.00 Each	(hourly)	U.S. [	Oollar	11.07	2,478.56
1.10.1.2	22,400.00 Gallon	Oil Disposal		0.00	0.00	Detail	U.S. Dollar	4.00	89,600.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			89,600.00 Each		U.S. [	Dollar	1.00	89,600.00
1.10.1.3	5.79 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	7,965.52
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			7,965.52 Each		U.S. [		1.00	7,965.52
1.10.2	112.00 Each	Remove & Loadout Tr	ansformer	5.60	20.00	Detail	U.S. Dollar	109.96	12,315.44
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucke	et & Grapple	56.00	1.00 Each	(hourly)	U.S. [		124.54	6,973.96
L010101	OPERATOR	re :	56.00	1.00 Each		U.S. [		51.35	2,875.39
L060100	GENERAL LABORER	₹	56.00	1.00 Each		U.S. [		44.04	2,466.09
1.10.3	896.00 Ton	Scrap Trucking Cost		0.00	0.00		U.S. Dollar	65.00	58,240.00
Resource Code	Description	. •	Hours	Quantity UM		Curr		Unit Cost	Total Cost
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			Cost I	tem					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub	·		58,240.00 Each		U.S. I	Dollar	1.00	58,240.00
1.10.4	112.00 Each	Remove Foundations To	Subgrade	1.57	71.43	Detail	U.S. Dollar	34.84	3,901.83
	112.00 Cubic Yard	Excavate / Remove Four	ndation - Various	0.45	250.00	Detail	U.S. Dollar	17.29	1,936.39
1.10.4.1		Depth							
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		4.48	1.00 Each	(hourly)	U.S. I		44.04	197.29
L010101	OPERATOR		8.96	2.00 Each	(hourly)	U.S. I	Dollar	51.35	460.06
*REXCAV06C	Excav 100K w/ Hamm	er	4.48	1.00 Each	(hourly)	U.S. I	Dollar	160.97	721.12
*REXCAV06A	Excav 100K w/ Bucket		4.48	1.00 Each	(hourly)	U.S. I	Dollar	124.54	557.92
1.10.4.2	112.00 Cubic Yard	Concrete Transport Offsi	te	1.12	100.00	Detail	U.S. Dollar	17.55	1,965.44
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	CY	11.20	1.00 Each	(hourly)	U.S. I	Dollar	74.29	832.05
L080940	TEAMSTER		11.20	1.00 Each		U.S. I		44.04	493.22
L010101	OPERATOR		5.60	0.50 Each	` ,	U.S. I		51.35	287.54
RFELWH09	CAT 966F LOADER, 4	25CY	5.60	0.50 Each	` ,	U.S. I		62.97	352.63
1.11	3.00 Each	MET Tower Removal	0.00	2.12	` ,,	Detail	U.S. Dollar	3,750.90	11,252.71
1.11.1	3.00 Each	Structure Demo		1.50	2 00	Detail	U.S. Dollar	2,503.99	7,511.96
1.11.2	45.00 Cubic Yard	Remove Foundation		0.31	146.00		U.S. Dollar	47.16	2,122.33
		Temove i oundation			140.00				
Resource Code	Description		Hours	Quantity UM			ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		6.16	2.00 Each	` ,	U.S. I		44.04	271.46
L010101	OPERATOR		9.25	3.00 Each	` ,	U.S. I		51.35	474.78
*REXCAV06C	Excav 100K w/ Hamm		6.16	2.00 Each	` ,	U.S. I	Dollar	160.97	992.25
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	3.08	1.00 Each	(hourly)	U.S. I	Dollar	124.54	383.84
1.11.3	45.00 Cubic Yard	Concrete Transport Offsi	te	0.31	146.67	Detail	U.S. Dollar	11.96	538.42
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	CY	3.07	1.00 Each	(hourly)	U.S. I	Oollar	74.29	227.94
L080940	TEAMSTER		3.07	1.00 Each	(hourly)	U.S. I	Dollar	44.04	135.11
L010101	OPERATOR		1.53	0.50 Each	(hourly)	U.S. I	Dollar	51.35	78.77
RFELWH09	CAT 966F LOADER, 4	.25CY	1.53	0.50 Each	(hourly)	U.S. I	Dollar	62.97	96.60
1.11.4	24.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	45.00	1,080.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			1,080.00 Each	]	U.S. I	Dollar	1.00	1,080.00
1.12	260.00 MW	Solar Array Removal		749.50	0.35	Detail	U.S. Dollar	42,625.03	11,082,509.00
1.12.1	260.00 MW	Fence Removal		13.06	19.91	Detail	U.S. Dollar	260.18	67,647.36
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L010101	OPERATOR		391.80	3.00 Each	(hourly)	U.S. I	Dollar	51.35	20,117.72
L060100	GENERAL LABORER		783.61	6.00 Each		U.S. I	Dollar	44.04	34,508.00
RBACKH09	Deere 710J BACKHO	E, 1.62CY	391.80	3.00 Each	` ,	U.S. I		33.24	13,021.63
Notes.	ume 26 LF of fence per acre.				` ',				
1.12.2	260.00 MW	Inverter / Transformer Re	emoval	262.00	0.99	Detail	U.S. Dollar	2,816.88	732,388.50
1.12.2.1	131.00 Each	Disconnect Electrical		131.00	1.00	Detail	U.S. Dollar	1,288.00	168,727.86
Resource Code	Description		Houre	Ougatite IIM		C	ancy	Unit Cost	Total Cost
Nesource Code	Description		Hours	Quantity UM		Gurr	ency	OHIL COST	rotar Cost

			Cost	l Item					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010110	ELECTRCIAN	•	1,310.00	1.00 Each	-	U.S. [	-	73.70	96,543.91
L060100	GENERAL LABORER		1,310.00	1.00 Each	` ,	U.S. [	Dollar	44.04	57,688.80
RPUTRK05	F-250 4X4 3/4 TON PIO	CKUP	1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	11.07	14,495.15
1.12.2.2	131.00 Each	Loadout Inverter & Tra	insformer	131.00	1.00 I	Detail	U.S. Dollar	2,927.75	383,535.64
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		5,240.00	4.00 Each	(hourly)	U.S. [	Dollar	44.04	230,755.19
L010101	OPERATOR		1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	51.35	67,263.65
RHYDCR06	GROVE RT880 73 TON	I	1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	65.28	85,516.80
1.12.2.3	131.00 Each	Trucking - Per Load		0.00	0.00 1	Detail	U.S. Dollar	1,375.00	180,125.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			180,125.00 Each		U.S. [	Dollar	1.00	180,125.00
1.12.3	260.00 MW	Remove Foundations	To Subgrade	169.93	1.53	Detail	U.S. Dollar	1,313.24	341,441.48
Ass trar	sumption: 24x36x1 concrete pactinsformer 12,521.00 Cubic Yard	per inverter/	oundation	44.72	280.00	Detail	U.S. Dollar	15.44	193,283.93
	Description		Harma	O. antita IIM		0		Hait Coat	Tatal Coat
Resource Code	Description		Hours	Quantity UM	(la a al A	Curr		Unit Cost	Total Cost
L060100	GENERAL LABORER		447.18	1.00 Each	, ,,	U.S. [		44.04	19,692.51
L010101	OPERATOR		894.36	2.00 Each	` ,	U.S. [		51.35	45,921.93
*REXCAV06C *REXCAV06A	Excav 100K w/ Hamme Excav 100K w/ Bucket		447.18 447.18	1.00 Each 1.00 Each	` ,	U.S. [ U.S. [		160.97 124.54	71,980.10 55,689.38
NEXOAVOUA	12,521.00 Cubic Yard	Concrete Transport Of		125.21	100.00 I		U.S. Dollar	11.83	148,157.55
1.12.3.2									
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-240	Y	1,252.10	1.00 Each	(hourly)	U.S. [	Dollar	74.29	93,018.51
L080940	TEAMSTER		1,252.10	1.00 Each	(hourly)	U.S. [	Dollar	44.04	55,139.04
1.12.4	260.00 MW	Solar Panel Removal		170.17	1.53	Detail	U.S. Dollar	15,508.04	4,032,089.83
1.12.4.1	816,812.00 Each	Solar Panel Removal		170.17	4,800.00 I	Detail	U.S. Dollar	3.11	2,543,759.83
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FF	KLFT	10,210.15	6.00 Each	(hourly)	U.S. [	Dollar	21.65	220,998.70
L010101	OPERATOR		10,210.15	6.00 Each	` ,	U.S. [		51.35	524,253.42
L060100	GENERAL LABORER	*****	40,840.60	24.00 Each	(hourly)	U.S. [	Dollar	44.04	1,798,507.71
Ass	sumed production: 20 panels pe ludes packaging and preparing	r laborer per hour,							
1.12.4.2	726.00 Each	Trucking - Per Load		0.00	0.00 1	Detail	U.S. Dollar	1,375.00	998,250.00
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			998,250.00 Each		U.S. [	Dollar	1.00	998,250.00
Ass	sumption: 45,000 lbs per load								
1.12.4.3	16,336.00 Ton	Disposal Cost		0.00	0.00 1	Detail	U.S. Dollar	30.00	490,080.00

			Cost	Item				
CBS Position Code	Quantity UM	Description		Days	Cost UM/Day Sour		Unit Cost	Total Cost
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			490,080.00 Each	U	J.S. Dollar	1.00	490,080.00
1.12.5	260.00 MW	Solar Rack (Trackers	) & Post Removal	134.34	1.94 Detai	U.S. Dollar	22,726.70	5,908,941.83
1.12.5.1	21,495.00 Each	Solar Rack (Trackers	) & Post Removal	134.34	160.00 Detai	U.S. Dollar	250.40	5,382,316.83
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
L010101	OPERATOR		21,495.00	16.00 Each	(hourly) L	J.S. Dollar	51.35	1,103,688.72
L060100	GENERAL LABORER		21,495.00	16.00 Each	(hourly) U	J.S. Dollar	44.04	946,580.69
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	10,747.50	8.00 Each	(hourly) U	J.S. Dollar	124.54	1,338,439.91
*REXCAV06E	Excav 100K w/ Shear		10,747.50	8.00 Each	(hourly) L	J.S. Dollar	185.50	1,993,607.51
1 e lab and 6 p	sumed production: .5 hour per nexcavator w/shear, 1 excavator v/orers. Includes post removal and loadout to haul trucks. siles & 38 modules per rack.	w/grapple, 2 operators d sizing of steel for sal	and 2 e as scrap,	0.00	0.00 Detai	i U.S. Dollar	1,375.00	526.625.00
1.12.5.2	300.00 Lacii	Trucking -1 of Load		0.00	0.00 Detai	U.O. Dollar	1,57 5.00	320,023.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			526,625.00 Each	U	J.S. Dollar	1.00	526,625.00
***	sumption: 45,000 lbs per load							
1.13	120.00 MW	DC Storage System I	Removal	90.91	1.32 Detai	l U.S. Dollar	3,610.96	433,314.64
1.13.1	120.00 MW	Battery Removal & D	isposal	79.00	1.52 Detai	U.S. Dollar	2,655.68	318,681.26
1.13.1.1	79.00 Day	Remove Batteries, Lo	oad For Transport	79.00	1.00 Detai	il U.S. Dollar	1,977.94	156,257.26
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER		3,160.00	4.00 Each	(hourly) L	J.S. Dollar	44.04	139,157.71
RLIFTS05	JCB 508C, 8,000lbs FF	RKLFT	790.00	1.00 Each	(hourly) U	J.S. Dollar	21.65	17,099.55
1.13.1.2	40.00 Each	Transport Batteries		0.00	0.00 Detai	U.S. Dollar	1,480.60	59,224.00
1.13.1.2.1	40.00 Each	Roll Off Liners		0.00	0.00 Detai	il U.S. Dollar	105.60	4,224.00
Resource Code	Description		Hours	Quantity UM		Currency	Unit Cost	Total Cost
UODCLINER	Rolloff Liner			40.00 Each	U	J.S. Dollar	105.60	4,224.00
1.13.1.2.2	40.00 Each	Trucking - Per Load		0.00	0.00 Detai	U.S. Dollar	1,375.00	55,000.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			55,000.00 Each		J.S. Dollar	1.00	55,000.00
1.13.1.3	516.00 Ton	Disposal Fee's		0.00	0.00 Detai	U.S. Dollar	200.00	103,200.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			103,200.00 Each		J.S. Dollar	1.00	103,200.00
1.13.2	120.00 MW	Structure & Compone	ents Removal	11.91	10.08 Detai	U.S. Dollar	955.28	114,633.38
1.13.2.1	516.00 Ton	Structure Demo		11.91	43.33 Detai	il U.S. Dollar	115.57	59,633.38

			Cost	Item					
CBS Position Code	Quantity UM	Description		Days	UM/Day S	Cost Source	Currency	Unit Cost	Total Cost
1.13.2.2	40.00 Each	Trucking - Per Load		0.00	0.00 [	Detail	U.S. Dollar	1,375.00	55,000.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			55,000.00 Each		U.S. [	Dollar	1.00	55,000.00
1.14	1.00 Lump Sum	Transmission Line Rem	oval (OH, 34.5	27.03	0.04 [	Detail	U.S. Dollar	183,487.18	183,487.18
1.14.1	1.00 Lump Sum	Transmission Line - Wi	nd	16.85	0.06 [	Detail	U.S. Dollar	114,361.97	114,361.97
1.14.1.1	9.10 Mile	Conductor Removal		13.65	0.67	Detail	U.S. Dollar	7,589.83	69,067.46
1.14.1.1.1	9.10 Mile	Cut / Lower Cable, Size	& Loadout	13.65	0.67 [	Detail	U.S. Dollar	6,682.69	60,812.46
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		682.50	5.00 Each	(hourly)	U.S. [	Dollar	44.04	30,055.42
L010101	OPERATOR		136.50	1.00 Each	` ,	U.S. [		51.35	7,008.77
*RXMISC14	MAN LIFT GAS 125ft		136.50	1.00 Each	` ,	U.S. [		53.52	7,305.48
RLIFTS05	JCB 508C, 8,000lbs FF	RKLFT	136.50	1.00 Each	(hourly)	U.S. [	Dollar	21.65	2,954.54
*RXMISC19	Material Handler		136.50	1.00 Each	(hourly)	U.S. [	Dollar	98.82	13,488.25
1.14.1.1.2	127.00 Ton	Scrap Trucking Cost		0.00	0.00 [	Detail	U.S. Dollar	65.00	8,255.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			8,255.00 Each		U.S. [	Oollar	1.00	8,255.00
Cab	le estimated at 14 tons per mil							207.24	45.004.50
1.14.1.2	192.00 Each	Remove Wood Poles		3.20	60.00 E	Detail	U.S. Dollar	235.91	45,294.50
1.14.1.2.1	192.00 Each	Remove Wood Poles		3.20	60.00 E	Detail	U.S. Dollar	179.66	34,494.50
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	128.00	4.00 Each	(hourly)	U.S. [	Dollar	124.54	15,940.48
L060100	GENERAL LABORER		256.00	8.00 Each	(hourly)	U.S. [	Dollar	44.04	11,273.54
L010101	OPERATOR		128.00	4.00 Each	(hourly)	U.S. [	Oollar	51.35	6,572.33
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	64.00	2.00 Each	(hourly)	U.S. [	Dollar	11.07	708.16
1.14.1.2.2	144.00 Ton	Pole Trucking Cost		0.00	0.00 [	Detail	U.S. Dollar	75.00	10,800.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			10,800.00 Each		U.S. [	Dollar	1.00	10,800.00
Pole	es estimated at .75 tons per po	le. Disposal cost has bee	en excluded, as th	e poles are valued	for fencing a	and retair	ning walls		
1.14.2	1.00 Lump Sum	Transmission Line - So	lar	10.18	0.10 [	Detail	U.S. Dollar	69,125.21	69,125.21
1.14.2.1	5.50 Mile	Conductor Removal		8.25	0.67 [	Detail	U.S. Dollar	7,592.69	41,759.79
1.14.2.1.1	5.50 Mile	Cut / Lower Cable, Size	& Loadout	8.25	0.67 [	Detail	U.S. Dollar	6,682.69	36,754.79
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		412.50	5.00 Each	(hourly)	U.S. [	Dollar	44.04	18,165.37
L010101	OPERATOR		82.50	1.00 Each	(hourly)	U.S. [	Dollar	51.35	4,236.07
*RXMISC14	MAN LIFT GAS 125ft		82.50	1.00 Each	(hourly)	U.S. [	Dollar	53.52	4,415.40
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			Cost Ite	em					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs Fl	RKLFT	82.50	1.00 Each	(hourly)	U.S. [	Oollar	21.65	1,785.71
*RXMISC19	Material Handler		82.50	1.00 Each	(hourly)	U.S. [	Oollar	98.82	8,152.24
1.14.2.1.2	77.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	65.00	5,005.00
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			5,005.00 Each		U.S. [	Oollar	1.00	5,005.00
Cab	le estimated at 14 tons per mil	е							
1.14.2.2	116.00 Each	Remove Wood Poles		1.93	60.00	Detail	U.S. Dollar	235.91	27,365.43
1.14.2.2.1	116.00 Each	Remove Wood Poles		1.93	60.00	Detail	U.S. Dollar	179.66	20,840.43
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	77.33	4.00 Each	(hourly)	U.S. [	Oollar	124.54	9,630.71
L060100	GENERAL LABORER		154.67	8.00 Each	(hourly)	U.S. [	Oollar	44.04	6,811.09
L010101	OPERATOR		77.33	4.00 Each	` ,	U.S. [	Oollar	51.35	3,970.78
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	38.67	2.00 Each	(hourly)	U.S. [	Oollar	11.07	427.85
1.14.2.2.2	87.00 Ton	Pole Trucking Cost		0.00	0.00	Detail	U.S. Dollar	75.00	6,525.00
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			6,525.00 Each		U.S. [	Oollar	1.00	6,525.00
Pole	es estimated at .75 tons per po	le. Disposal cost has be	een excluded, as the	poles are valued t	or fencing	and retair	ing walls		
1.15	1.00 Lump Sum	Transmission Line Re	emoval (OH, 230 KV)	62.10	0.02	Detail	U.S. Dollar	500,707.43	500,707.43
1.15.1	32.00 Mile	Conductor Removal		48.00	0.67	Detail	U.S. Dollar	7,592.69	242,966.02
1.15.1.1	32.00 Mile	Cut / Lower Cable, Siz	ze & Loadout	48.00	0.67	Detail	U.S. Dollar	6,682.69	213,846.02
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		2,400.00	5.00 Each		U.S. [		44.04	105,689.40
L010101	OPERATOR		480.00	1.00 Each		U.S. [		51.35	24,646.22
*RXMISC14	MAN LIFT GAS 125ft	OKI ET	480.00	1.00 Each	,	U.S. [		53.52	25,689.60
RLIFTS05	JCB 508C, 8,000lbs Fl	KKLFI	480.00	1.00 Each		U.S. [		21.65	10,389.60
*RXMISC19	Material Handler 448.00 Ton	Scrap Trucking Cost	480.00	1.00 Each		U.S. [ Detail	U.S. Dollar	98.82	47,431.20 29,120.00
1.15.1.2	440.00 1011	Scrap Trucking Cost		0.00	0.00	Delaii	U.S. Dollal	05.00	29,120.00
Resource Code	Description		Hours	Quantity UM		Curre	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			29,120.00 Each		U.S. [	Oollar	1.00	29,120.00
Cab	le estimated at 14 tons per mil	е							
1.15.2	282.00 Each	Remove Wood Monop	poles	14.10	20.00	Detail	U.S. Dollar	913.98	257,741.40
1.15.2.1	282.00 Each	Remove Wood Monop	poles	14.10	20.00	Detail	U.S. Dollar	538.98	151,991.40
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	564.00	4.00 Each	(hourly)	U.S. [	Oollar	124.54	70,237.74
L060100	GENERAL LABORER		1,128.00	8.00 Each	,	U.S. [		44.04	49,674.02
L010101	OPERATOR		564.00	4.00 Each	(hourly)	U.S. [	Oollar	51.35	28,959.31

			Cost I	tem					
CBS						Cost			
Position Code	Quantity UM	Description		Days	UM/Day S		Currency	Unit Cost	Total Cos
RPUTRK05	F-250 4X4 3/4 TON F	PICKUP	282.00	2.00 Each	(hourly)	U.S.	Dollar	11.07	3,120.33
1.15.2.2	1,410.00 Ton	Pole Trucking Cost		0.00	0.00	Detail	U.S. Dollar	75.00	105,750.00
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			105,750.00 Each		U.S.	Dollar	1.00	105,750.00
Notes:	**********								
Woo	od monopoles estimated at 5	tons per pole. Disposal co	ost has been exclud	led, as the poles a	e valued fo	or fencino	g and retaining wall	S	
1.16	1.00 Lump Sum	O&M Building Remova	I	6.48	0.15 [	Detail	U.S. Dollar	21,164.02	21,164.02
1.16.1	40.00 Ton	Structure Demo		2.00	20.00 [	Detail	U.S. Dollar	250.40	10,015.94
1.16.2	320.00 Cubic Yard	Remove Foundations	Го Subgrade	4.48	71.43 [	Detail	U.S. Dollar	34.84	11,148.07
1.16.2.1	320.00 Cubic Yard	Excavate / Remove Fo Depth	undation - Various	1.28	250.00 [	Detail	U.S. Dollar	17.29	5,532.54
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
_060100	GENERAL LABOREF	₹	12.80	1.00 Each	(hourly)	U.S.	Dollar	44.04	563.68
_010101	OPERATOR		25.60	2.00 Each	(hourly)	U.S.	Dollar	51.35	1,314.47
REXCAV06C	Excav 100K w/ Hamn	ner	12.80	1.00 Each	(hourly)	U.S.	Dollar	160.97	2,060.35
REXCAV06A	Excav 100K w/ Bucke	et & Grapple	12.80	1.00 Each	(hourly)	U.S.	Dollar	124.54	1,594.05
1.16.2.2	320.00 Cubic Yard	Concrete Transport Off	fsite	3.20	100.00 [	Detail	U.S. Dollar	17.55	5,615.53
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	4CY	32.00	1.00 Each	(hourly)	U.S.	Dollar	74.29	2,377.28
_080940	TEAMSTER		32.00	1.00 Each	(hourly)	U.S.	Dollar	44.04	1,409.19
_010101	OPERATOR		16.00	0.50 Each	(hourly)	U.S.	Dollar	51.35	821.54
RFELWH09	CAT 966F LOADER,	4.25CY	16.00	0.50 Each	(hourly)	U.S.	Dollar	62.97	1,007.52
1.17	61.00 Mile	Private Access Road R	temoval (New	30.50	2.00 [	Detail	U.S. Dollar	5,676.59	346,272.20

Assume topsoil removed during original construction is available for restoration

43.00 Mile

	Roads) - Wind					
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	860.00	4.00 Each (hourly)	U.S. Dollar	51.35	44,157.82
L060100	GENERAL LABORER	430.00	2.00 Each (hourly)	U.S. Dollar	44.04	18,936.02
L080940	TEAMSTER	860.00	4.00 Each (hourly)	U.S. Dollar	44.04	37,872.04
RDUTRK06	CAT D350D, 18CY-24CY	860.00	4.00 Each (hourly)	U.S. Dollar	74.29	63,889.40
RFELWH09	CAT 966F LOADER, 4.25CY	860.00	4.00 Each (hourly)	U.S. Dollar	62.97	54,154.20
*RDOZER08	CAT D6 LGP Dozer	430.00	2.00 Each (hourly)	U.S. Dollar	58.34	25,084.05
	********					
Assur	ne tonsoil removed during original construction	n				

21.50

2.00 Detail

U.S. Dollar

5,676.59

244,093.52

Private Access Road Removal (New

Assume topsoil removed during original construction is available for restoration

Resource Code	Description	Hours	Quantity UM	Curre	ncv	Unit Cost	Total Cost
1.17.2	18.00 Mile	Private Access Road Removal (New Roads) - Solar	9.00	2.00 Detail	U.S. Dollar	5,676.59	102,178.68

Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	360.00	4.00 Each (hourly)	U.S. Dollar	51.35	18,484.67
L060100	GENERAL LABORER	180.00	2.00 Each (hourly)	U.S. Dollar	44.04	7,926.71
L080940	TEAMSTER	360.00	4.00 Each (hourly)	U.S. Dollar	44.04	15,853.41

1.17.1

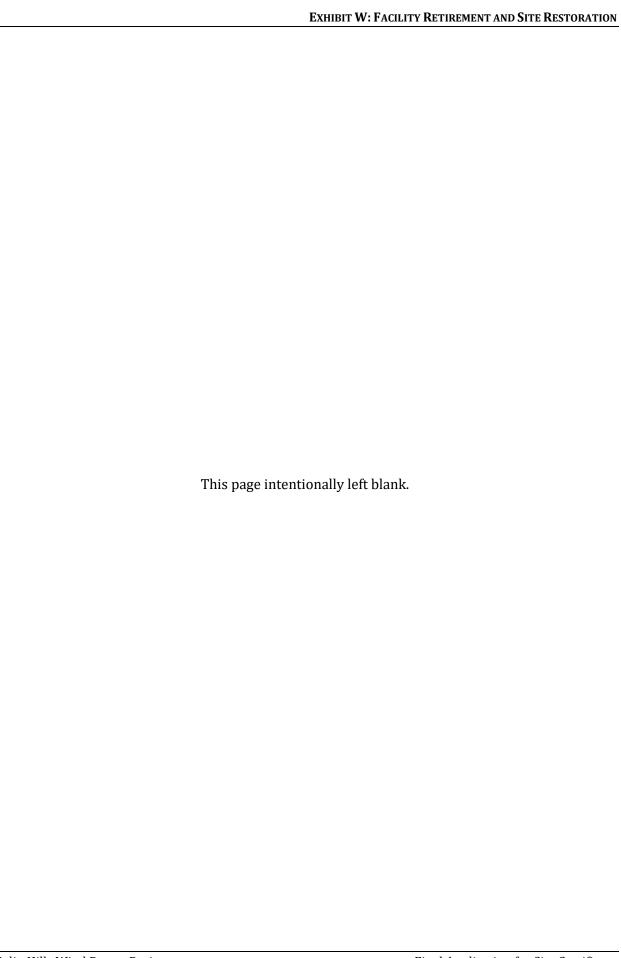
		Cost Ite	em					
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	4CY 360.00	4.00 Each	(hourly)	U.S. D	ollar	74.29	26,744.40
RFELWH09	CAT 966F LOADER,		4.00 Each	. ,	U.S. D	ollar	62.97	22,669.20
RDOZER08	CAT D6 LGP Dozer	180.00	2.00 Each	(hourly)	U.S. D	ollar	58.34	10,500.30
Notes:								
	Assume topsoil removed during of is available for restoration	·						
1.18	380.00 Acre	Spot Grade Disturbed Areas - Solar Array	47.50	8.00	Detail	U.S. Dollar	548.41	208,394.47
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	1,900.00	4.00 Each	(hourly)	U.S. D	ollar	58.34	110,836.50
_010101	OPERATOR	1,900.00	4.00 Each	(hourly)	U.S. D	ollar	51.35	97,557.97
Notes:	*******							
	Assumtion: 1896 acres total array Assume that 20% of the array are will be regraded.	ea distrubed by construction						
1.19	1.00 Lump Sum	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	0.00	Detail	U.S. Dollar	516,375.00	516,375.00
Notes:	********	****						
	Assume topsoil removed during of is available for restoration	•						
1.19.1	1.00 Lump Sum	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction - Wind	0.00	0.00	Detail	U.S. Dollar	209,610.00	209,610.00
1.19.1.1	50.00 Acre	Re-Seed Road Beds	0.00	0.00	Detail	U.S. Dollar	765.00	38,250.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		50.00 Acre		U.S. D	ollar	765.00	38,250.00
Notes:	1.45 acres per mile of road							
1.19.1.2	224.00 Acre	Re-Seed Turbine Locations	0.00	0.00	Detail	U.S. Dollar	765.00	171,360.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
JSLANDSCAPE	Landscape Sub		224.00 Acre		U.S. D	ollar	765.00	171,360.00
Notes:	**************************************	tion						
1.19.2	1.00 Lump Sum	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction - Solar	0.00	0.00	Detail	U.S. Dollar	306,765.00	306,765.00
1.19.2.1	21.00 Acre	Re-Seed Road Beds	0.00	0.00	Detail	U.S. Dollar	765.00	16,065.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
JSLANDSCAPE	Landscape Sub		21.00 Acre		U.S. D	ollar	765.00	16,065.00
Notes:	1.45 acres per mile of road							
1.19.2.2	380.00 Acre	Re-Seed Solar Array Area	0.00	0.00	Detail	U.S. Dollar	765.00	290,700.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
JSLANDSCAPE	Landscape Sub		380.00 Acre		U.S. D	ollar	765.00	290,700.00
Notes:	**************************************	tion						

Re-Seed 2 acres per turbine location

		Cost	Item				
CBS Position Code	Quantity UM	Description	Days	Cost UM/Day Source	Currency	Unit Cost	Total Cost
1.20	1.00 Lump Sum	Home Office, Project Management (5% Cost)	Of 0.00	0.00 Detail	U.S. Dollar	1,287,711.50	1,287,711.50
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
USMARKUP5	5% Markup	2	5,754,230.00 Each	U.S. [	Oollar	0.05	1,287,711.50
1.21	1.00 Lump Sum	Contractor Contingency (3% Of Cost)	0.00	0.00 Detail	U.S. Dollar	811,258.23	811,258.23
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
USCONTINGENCY	3% Contingency	2	7,041,941.00 Each	U.S. [	Oollar	0.03	811,258.23
1.22	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	0.00 Detail	U.S. Dollar	3,620,915.87	3,620,915.87
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
USMARKUP	13% Markup	2	7,853,199.00 Each	U.S. [	Oollar	0.13	3,620,915.87
Report Total:			1,939.10				31,474,115.16

Category	Total
Labor	8,234,557.53
Rented Equipment	6,307,830.93
Supplies	8,484.00
Materials	304,000.00
Subcontract	16,075,642.70
ODCs	543,600.00

# Attachment W-2. Estimate of Project Retirement Costs with Scrap Credit



			Cost I	tem					
CBS Position Code	Quantity UM	Description		Days	UM/Day S	ost ource	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	NOLIN HILLS DECOMM WIND & SOLAR	MISSIONING -	1,939.10	0.00 D	etail	U.S. Dollar	21,530,123.16	21,530,123.16
1.1	1.00 Lump Sum	ODOE Management Fe Cost)	e (Pass Through	0.00	0.00 D	etail	U.S. Dollar	533,000.00	533,000.00
Resource Code	Description		Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
UODC	ODOE Management F	ee		533,000.00 Each		U.S. D	ollar	1.00	533,000.00
1.2	1.00 Lump Sum	Mob / Demob		5.00	0.20 D	etail	U.S. Dollar	907,217.85	907,217.85
1.2.1	1.00 Lump Sum	Equipment Mob		0.00	0.00 D	etail	U.S. Dollar	101,500.00	101,500.00
Resource Code	Description		Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
UERNTRLG	Rental Equip Transp-L	arge		10.00 Each		U.S. D	ollar	10,000.00	100,000.00
UERNTRSM	Rental Equip Transp-S	Small		10.00 Each		U.S. D	ollar	150.00	1,500.00
1.2.2	1.00 Lump Sum	Site Facilities		0.00	0.00 D	etail	U.S. Dollar	2,200.00	2,200.00
Resource Code	Description		Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
UOCONMOB	Connex Box Mob			2.00 Each		U.S. D	ollar	300.00	600.00
UOTRLTRN	Trailer Trnsp/Setup/Tr	dwn		2.00 Each		U.S. D	ollar	800.00	1,600.00
1.2.3	3.00 Day	Crew Mob & Site Setup		3.00	1.00 D	etail	U.S. Dollar	15,703.57	47,110.71
Resource Code	Description		Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
L060100	GENERAL LABORER		600.00	20.00 Each	(hourly)	U.S. D	ollar	44.04	26,422.35
L010101	OPERATOR		300.00	10.00 Each	(hourly)	U.S. D	ollar	51.35	15,403.89
L080940	TEAMSTER		120.00	4.00 Each	(hourly)	U.S. D	ollar	44.04	5,284.47
1.2.4	2.00 Day	Crew Demob & Site Cle	anup	2.00	1.00 D	etail	U.S. Dollar	15,703.57	31,407.14
Resource Code	Description		Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
L060100	GENERAL LABORER		400.00	20.00 Each	(hourly)	U.S. D	ollar	44.04	17,614.90
L010101	OPERATOR		200.00	10.00 Each	(hourly)	U.S. D	ollar	51.35	10,269.26
L080940	TEAMSTER		80.00	4.00 Each	(hourly)	U.S. D	ollar	44.04	3,522.98
1.2.5	1.00 Lump Sum	Mob-Erection Sub		0.00	0.00 D	etail	U.S. Dollar	725,000.00	725,000.00
Resource Code	Description		Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
	Sub-Erection Mobilizat			1.00 Each		U.S. D		725,000.00	725,000.00

Historical pricing from past projects

1.3	12.00 Month	Site Facilities		0.00	0.00 Detail	U.S. Dollar	2,155.00	25,860.00
Resource Code	Description		Hours	Quantity UM	Curr	ency	Unit Cost	Total Cost
URCONNEX	Connex Box			24.00 Month	U.S. I	Dollar	150.00	3,600.00
UROFFTRL	Office Trailer -12x60			12.00 Month	U.S. [	Dollar	500.00	6,000.00
UO1STAID	1st Aid Supplies			12.00 Month	U.S. [	Dollar	300.00	3,600.00
UOOFFPHN	Monthly Office Phon	е		12.00 Month	U.S. [	Dollar	500.00	6,000.00
UOOFFSUP	Office Supplies(\$/pr	s/mo)		12.00 Month	U.S. [	Dollar	55.00	660.00
UINT	Internet			12.00 Month	U.S. [	Dollar	200.00	2,400.00
URPRTAJH	Port-a-John Unit(s) (	4)		12.00 Month	U.S. I	Dollar	300.00	3,600.00
1.4	52.00 Week	Field Management		312.00	0.17 Detail	U.S. Dollar	30,245.91	1,572,787.15
Resource Code	Description		Hours	Quantity UM	Curr	ency	Unit Cost	Total Cost

Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.5.1	784.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	3.14	250.00	Detail	U.S. Dollar	17.29	13,554.73
1.5.5	784.00 Cubic Yard	Remove Foundations To Subgrade	10.98	71.43	Detail	U.S. Dollar	34.84	27,312.78
RBACKH09	Deere 710J BACKHOE	E, 1.62CY 40.00	1.00 Each	(hourly)	U.S. [	Dollar	33.24	1,329.40
L060100	GENERAL LABORER	40.00	1.00 Each		U.S. [		44.04	1,761.49
L010101	OPERATOR	40.00	1.00 Each	(hourly)	U.S. I	-	51.35	2,053.85
Resource Code	Description	Hours	Quantity UM		Curr	encv	Unit Cost	Total Cost
1.5.4	4.00 Day	UG Utility & Ground Removal	4.00	1.00	Detail	U.S. Dollar	1,286.19	5,144.74
USTRUCKING	Trucking Sub		1,300.00 Each		U.S. I		1.00	1,300.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.3.2	20.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	1,300.00
1.5.3.1	20.00 Ton	Demo & Prepare For Shipment Offsite	0.20	100.00	Detail	U.S. Dollar	195.44	3,908.82
1.5.3	2.00 Each	Remove Control Building	0.20	10.00	Detail	U.S. Dollar	2,604.41	5,208.82
USTRUCKING	Trucking Sub		19,500.00 Each		U.S. [	Dollar	1.00	19,500.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.3	300.00 Ton	Scrap Trucking Cost	0.00	0.00	Detail	U.S. Dollar	65.00	19,500.00
1.5.2.2	300.00 Ton	Demo & Prepare For Shipment Offsite	3.00	100.00	Detail	U.S. Dollar	102.66	30,798.35
USTRUCKING	Trucking Sub		5,500.00 Each		U.S. [	Dollar	1.00	5,500.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.1.3	4.00 Each	Trucking - Per Load	0.00	0.00	Detail	U.S. Dollar	1,375.00	5,500.00
USDISPOSAL	Disposal Fee's		200,000.00 Each		U.S. [	Dollar	1.00	200,000.00
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.1.2	50,000.00 Gallon	Oil Disposal	0.00	0.00	Detail	U.S. Dollar	4.00	200,000.00
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP 40.00	1.00 Each	(hourly)	U.S. [	Dollar	11.07	442.60
L060100	GENERAL LABORER	80.00	2.00 Each	(hourly)	U.S. [	Dollar	44.04	3,522.98
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.2.1.1	2.00 Each	Oil Removal	4.00	0.50	Detail	U.S. Dollar	1,982.79	3,965.58
1.5.2.1	2.00 Each	Oil Removal & Disposal	4.00	0.50	Detail	U.S. Dollar	104,732.79	209,465.58
1.5.2	2.00 Each	Transformer & Switchyard Equip Removal	7.00	0.29	Detail	U.S. Dollar	129,881.96	259,763.93
RBACKH09	Deere 710J BACKHOE		1.00 Each	(hourly)	U.S. [	Dollar	33.24	664.70
L060100	GENERAL LABORER	20.00	1.00 Each	(hourly)	U.S. [	Dollar	44.04	880.75
L010101	OPERATOR	20.00	1.00 Each	(hourly)	U.S. [		51.35	1,026.93
Resource Code	Description	Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.5.1	2.00 Day	Fence Removal	2.00		Detail	U.S. Dollar	1,286.19	2,572.37
1.5	2.00 Each	Substation & Switchyard Removal	32.84	` ,,	Detail	U.S. Dollar	168,836.05	337,672.10
L90FXX03 L90FEJ00	Field - SHSO Field - Asst. Engr.	6,240.00 6,240.00	2.00 Each 2.00 Each	. ,,	U.S. I U.S. I		89.26 48.43	557,006.74 302,173.87
L90FEL00	Field - Engr. Tech	6,240.00	2.00 Each	. ,,	1.8.U		39.57	246,941.90
RPUTRK05	F-250 4X4 3/4 TON PIO		6.00 Each	. ,,	U.S. [		11.07	207,136.80
L90FXX02	Field - Proj Superintend	dent 3,120.00	1.00 Each	(hourly)	U.S. [	Dollar	83.18	259,527.84
Position Code	Quantity UM	Description	Days	UM/Day		Currency	Unit Cost	Total Cost
CBS		Cost It	leiπ		Cost			
		Cost It	em .					

			Cost I	tem					
CBS Position Code	Quantity UM	Description		Days	UM/Day S	Cost Source	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER	{	31.36	1.00 Each	(hourly)	U.S.	Dollar	44.04	1,381.01
L010101	OPERATOR		62.72	2.00 Each	(hourly)	U.S.	Dollar	51.35	3,220.44
*REXCAV06C	Excav 100K w/ Hamm	ner	31.36	1.00 Each	(hourly)	U.S.	Dollar	160.97	5,047.86
*REXCAV06A	Excav 100K w/ Bucke	t & Grapple	31.36	1.00 Each	(hourly)	U.S.	Dollar	124.54	3,905.42
1.5.5.2	784.00 Cubic Yard	Concrete Transport Offsite	e	7.84	100.00 D	Detail	U.S. Dollar	17.55	13,758.06
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	ICY	78.40	1.00 Each	(hourly)	U.S.	Dollar	74.29	5,824.34
L080940	TEAMSTER		78.40	1.00 Each	(hourly)	U.S.	Dollar	44.04	3,452.52
L010101	OPERATOR		39.20	0.50 Each	,		Dollar	51.35	2,012.77
RFELWH09	CAT 966F LOADER,	4.25CY	39.20	0.50 Each	,		Dollar	62.97	2,468.42
1.5.6	2.00 Each	Misc. Material Disposal		0.00	0.00 🗅		U.S. Dollar	1,675.00	3,350.00
1.5.6.1	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		Cur	rency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		Tiouis	2,750.00 Each			Dollar	1.00	2,750.00
1.5.6.2	20.00 Ton	Disposal Cost		0.00	0.00 🗅		U.S. Dollar	30.00	600.00
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's		Tiouis	600.00 Each			Dollar	1.00	600.00
1.5.7	2.00 Each	Postoro Vard		8.67	0.23 D		U.S. Dollar		
		Restore Yard						17,159.73	34,319.46
1.5.7.1	4.00 Acre	Backfill / Regrade		2.00	2.00 🗅	Detail	U.S. Dollar	1,624.15	6,496.62
Resource Code	Description		Hours	Quantity UM			rency	Unit Cost	Total Cost
L060100	GENERAL LABORER	2	40.00	2.00 Each	` ,		Dollar	44.04	1,761.49
L010101	OPERATOR		40.00	2.00 Each	(hourly)		Dollar	51.35	2,053.85
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
1.5.7.2	2,000.00 Cubic Yard	Vegetative Cover		6.67	300.00 🗅	Detail	U.S. Dollar	12.38	24,762.84
1.5.7.2.1	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		Cur	rency	Unit Cost	Total Cost
IMSOIL	Topsoil			500.00 Cubic	Yard	U.S.	Dollar	20.00	10,000.00
Ass is b	ume that 50% of the topsoil reermed and stockpiled adjacen	equired for restoration to the substation							
1.5.7.2.2	2,000.00 Cubic Yard	Placement		6.67	300.00 D	Detail	U.S. Dollar	7.38	14,762.84
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
L010101	OPERATOR		133.33	2.00 Each	(hourly)	U.S.	Dollar	51.35	6,846.17
RDOZER08	CAT D6N XL		133.33	2.00 Each	(hourly)	U.S.	Dollar	59.38	7,916.67
1.5.7.3	4.00 Acre	Re-Seed With Native Veg	etation	0.00	0.00 🗅	Detail	U.S. Dollar	765.00	3,060.00
Resource Code	Description		Hours	Quantity UM		Cur	rency	Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub			4.00 Acre		U.S.	Dollar	765.00	3,060.00
1.6	112.00 Each	Construct & Remove Tem Pads	porary Crane	149.33	0.75 🗅	Detail	U.S. Dollar	7,593.04	850,420.82
60':	x 40' Temporary Crane Pad								
1.6.1	11,200.00 Ton	Crane Pad 4" Stone 8" de	pth	56.00	200.00 🗅	Detail	U.S. Dollar	34.90	390,848.42

			Cost	Item					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description		Hours	Quantity UM		Currei	ncv	Unit Cost	Total Cost
M4"STONE	4" Stone			11,200.00 Ton		U.S. Do		15.00	168,000.00
RDOZER06	CAT D5H XL		560.00	1.00 Each	(hourly)	U.S. Do	ollar	43.56	24,390.80
RROLLR06	CP-563C 84" SMOOTI	H DRUM	560.00	1.00 Each	(hourly)	U.S. Do	ollar	51.70	28,949.76
L010101	OPERATOR		1,120.00	2.00 Each	(hourly)	U.S. Do	ollar	51.35	57,507.86
USSTONETRK	Sub-Trucking of Stone			11,200.00 Ton		U.S. Do	ollar	10.00	112,000.00
1.6.2	8,400.00 Ton	Crane Pad 2" Stone 6'	' depth	56.00	150.00	Detail	U.S. Dollar	38.20	320,848.42
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USSTONETRK	Sub-Trucking of Stone			8,400.00 Ton		U.S. Do	ollar	10.00	84,000.00
L010101	OPERATOR		1,120.00	2.00 Each	(hourly)	U.S. Do	ollar	51.35	57,507.86
RDOZER06	CAT D5H XL		560.00	1.00 Each	(hourly)	U.S. Do	ollar	43.56	24,390.80
RROLLR06	CP-563C 84" SMOOTI	H DRUM	560.00	1.00 Each	(hourly)	U.S. Do	ollar	51.70	28,949.76
M2"STONE	Material - 2" Stone			8,400.00 Ton		U.S. Do	ollar	15.00	126,000.00
1.6.3	112.00 Each	Remove stone after er	ection	37.33	3.00	Detail	U.S. Dollar	1,238.61	138,723.98
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
RDOZER06	CAT D5H XL		373.33	1.00 Each	` ,	U.S. Do	ollar	43.56	16,260.53
RFELWH09	CAT 966F LOADER, 4	.25CY	373.33	1.00 Each	(hourly)	U.S. Do	ollar	62.97	23,508.80
L010101	OPERATOR		746.67	2.00 Each	(hourly)	U.S. Do	ollar	51.35	38,338.57
L060100	GENERAL LABORER		373.33	1.00 Each	(hourly)	U.S. Do	ollar	44.04	16,440.57
RDUTRK06	CAT D350D, 18CY-24	CY	373.33	1.00 Each	` ,	U.S. Do		74.29	27,734.93
L080940	TEAMSTER		373.33	1.00 Each	(hourly)	U.S. Do	ollar	44.04	16,440.57
1.7	112.00 Each	WTG Removal		0.00	0.00	Detail	U.S. Dollar	30,000.00	3,360,000.00
1.7.1	112.00 Each	Remove Top,Nacell, R	Rotor	0.00	0.00	Detail	U.S. Dollar	20,000.00	2,240,000.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USERECT1	Sub-Top, Nacelle, Rote	or		112.00 Each	l	U.S. Do	ollar	20,000.00	2,240,000.00
1.7.2	112.00 Each	Remove Base & Mid		0.00	0.00	Detail	U.S. Dollar	10,000.00	1,120,000.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USERECT	Erection Sub - Base/N	lid		112.00 Each		U.S. Do	ollar	10,000.00	1,120,000.00
1.8	112.00 Each	WTG Sizing & Loadou	t	134.40	0.83	Detail	U.S. Dollar	31,754.04	3,556,452.87
1.8.1	112.00 Each	Oil Removal & Disposa	al	22.40	5.00	Detail	U.S. Dollar	262.13	29,358.83
1.8.1.1	112.00 Each	Oil Removal		22.40	5.00	Detail	U.S. Dollar	198.28	22,207.25
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
L060100	GENERAL LABORER		448.00	2.00 Each	(hourly)	U.S. Do	ollar	44.04	19,728.69
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	224.00	1.00 Each	(hourly)	U.S. Do	ollar	11.07	2,478.56
1.8.1.2	1,456.00 Gallon	Oil Disposal		0.00	0.00	Detail	U.S. Dollar	4.00	5,824.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			5,824.00 Each	1	U.S. Do	ollar	1.00	5,824.00
1.8.1.3	0.97 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	1,327.59
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			1,327.59 Each		U.S. Do	ollar	1.00	1,327.59
1.8.2	32,032.00 Ton	Demo & Prepare For S	Shipment Offsite	112.00	286.00	Detail	U.S. Dollar	32.49	1,040,694.03
1.8.3	4,256.00 Ton	Blade T&D		0.00	0.00	Detail	U.S. Dollar	95.00	404,320.00
Resource Code	Description		Hours	Quantity UM		Curre	псу	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			276,640.00 Each		U.S. Do	ollar	1.00	276,640.00
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one			Co	st Item		0-4			
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cos
JSDISPOSAL	Disposal Fee's			127,680.00 Each		U.S. [	Oollar	1.00	127,680.00
1.8.4	32,032.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	65.00	2,082,080.00
Resource Code	Description		Hours	Quantity UM		Curr	encv	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		110410	2,082,080.00 Each		U.S. [		1.00	2,082,080.00
1.9	112.00 Each	WTG Foundation Rem	noval	259.82	0.43	Detail	U.S. Dollar	10,026.58	1,122,976.45
1.9.1	2.240.00 Cubic Yard	Remove Cylindrical Pe		14.93	150.00	Detail	U.S. Dollar	45.91	102,827.71
Resource Code	,	Tromovo dyimanodi i	Hours		100.00			Unit Cost	Total Cost
L060100	Description  GENERAL LABORER	<u> </u>	298.67	Quantity UM 2.00 Each	(hourly)	U.S. [		44.04	13,152.46
L000100 L010101	OPERATOR	`	448.00	3.00 Each	` ,,	U.S. [		51.35	23,003.14
*REXCAV06C	Excav 100K w/ Hamn	nor	298.67	2.00 Each	` ,,	U.S. [		160.97	48,074.88
*REXCAV06A	Excav 100K w/ Harrin		149.33	1.00 Each	` ,,	U.S. [		124.54	18,597.23
1.9.2	16,800.00 Cubic Yard	Remove Top 2' Of Oct		115.07	146.00		U.S. Dollar	47.16	792,336.79
Resource Code	,	Trainers rep 2 or our			110.00				
L060100	Description  GENERAL LABORER	2	2,301.37	Quantity UM	(hours)	U.S. I		Unit Cost 44.04	Total Cost 101,346.00
	OPERATOR	ζ	,	2.00 Each 3.00 Each	,	U.S. I		51.35	
L010101 *DEXCAVOSC			3,452.05	2.00 Each	` ,,	U.S. I		160.97	177,250.24
*REXCAV06C	Excav 100K w/ Hamn		2,301.37		` ,,				370,440.00
*REXCAV06A	Excav 100K w/ Bucke		1,150.68	1.00 Each	, ,,	U.S. [		124.54	143,300.55
1.9.3	19,040.00 Cubic Yard	Concrete Transport Of	TSITE	129.82	146.67	Detail	U.S. Dollar	11.96	227,811.96
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-2	4CY	1,298.18	1.00 Each	(hourly)	U.S. [	Oollar	74.29	96,441.93
L080940	TEAMSTER		1,298.18	1.00 Each	` ,	U.S. [	Oollar	44.04	57,168.36
L010101	OPERATOR		649.09	0.50 Each	(hourly)	U.S. [	Oollar	51.35	33,328.42
RFELWH09	CAT 966F LOADER,	4.25CY	649.09	0.50 Each	(hourly)	U.S. [	Oollar	62.97	40,873.25
1.10	112.00 Each	Pad Mount Transform	er Removal	29.57	3.79	Detail	U.S. Dollar	1,646.12	184,365.69
1.10.1	112.00 Each	Oil Removal & Dispos	al	22.40	5.00	Detail	U.S. Dollar	981.33	109,908.42
1.10.1.1	112.00 Each	Oil Removal		22.40	5.00	Detail	U.S. Dollar	110.20	12,342.90
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER	3	224.00	1.00 Each	(hourly)	U.S. [	Oollar	44.04	9,864.34
RPUTRK05	F-250 4X4 3/4 TON F	PICKUP	224.00	1.00 Each	(hourly)	U.S. [	Oollar	11.07	2,478.56
1.10.1.2	22,400.00 Gallon	Oil Disposal		0.00	0.00	Detail	U.S. Dollar	4.00	89,600.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			89,600.00 Each		U.S. [	Dollar	1.00	89,600.00
1.10.1.3	5.79 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	7,965.52
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			7,965.52 Each		U.S. [		1.00	7,965.52
1.10.2	112.00 Each	Remove & Loadout Tr	ansformer	5.60	20.00	Detail	U.S. Dollar	109.96	12,315.44
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucke	et & Grapple	56.00	1.00 Each	(hourly)	U.S. [		124.54	6,973.96
L010101	OPERATOR	rr -	56.00	1.00 Each	,	U.S. [		51.35	2,875.39
L060100	GENERAL LABORER	₹	56.00	1.00 Each	,	U.S. [		44.04	2,466.09
1.10.3	896.00 Ton	Scrap Trucking Cost		0.00	, ,,	Detail	U.S. Dollar	65.00	58,240.00
Resource Code	Description	· •	Hours	Quantity UM		Curr		Unit Cost	Total Cost
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			Cost I	tem					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub	·		58,240.00 Each		U.S. I	Dollar	1.00	58,240.00
1.10.4	112.00 Each	Remove Foundations To	Subgrade	1.57	71.43	Detail	U.S. Dollar	34.84	3,901.83
	112.00 Cubic Yard	Excavate / Remove Four	ndation - Various	0.45	250.00	Detail	U.S. Dollar	17.29	1,936.39
1.10.4.1		Depth							
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		4.48	1.00 Each	(hourly)	U.S. I		44.04	197.29
L010101	OPERATOR		8.96	2.00 Each	(hourly)	U.S. I	Dollar	51.35	460.06
*REXCAV06C	Excav 100K w/ Hamm	er	4.48	1.00 Each	(hourly)	U.S. I	Dollar	160.97	721.12
*REXCAV06A	Excav 100K w/ Bucket		4.48	1.00 Each	(hourly)	U.S. I	Dollar	124.54	557.92
1.10.4.2	112.00 Cubic Yard	Concrete Transport Offsi	te	1.12	100.00	Detail	U.S. Dollar	17.55	1,965.44
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	CY	11.20	1.00 Each	(hourly)	U.S. I	Dollar	74.29	832.05
L080940	TEAMSTER		11.20	1.00 Each		U.S. I	Dollar	44.04	493.22
L010101	OPERATOR		5.60	0.50 Each	. ,	U.S. I	Dollar	51.35	287.54
RFELWH09	CAT 966F LOADER, 4	.25CY	5.60	0.50 Each	. ,	U.S. I	Dollar	62.97	352.63
1.11	3.00 Each	MET Tower Removal		2.12	1.42	Detail	U.S. Dollar	3,750.90	11,252.71
1.11.1	3.00 Each	Structure Demo		1.50	2.00	Detail	U.S. Dollar	2,503.99	7,511.96
1.11.2	45.00 Cubic Yard	Remove Foundation		0.31	146.00	Detail	U.S. Dollar	47.16	2,122.33
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		6.16	2.00 Each	(hourly)	U.S. I		44.04	271.46
L010101	OPERATOR		9.25	3.00 Each	. ,	U.S. I		51.35	474.78
*REXCAV06C	Excav 100K w/ Hamm	•	9.25 6.16	2.00 Each	. ,	U.S. I		160.97	992.25
	Excav 100K w/ Bucket				` ,				383.84
*REXCAV06A 1.11.3	45.00 Cubic Yard	Concrete Transport Offsi	3.08	1.00 Each 0.31	146.67	U.S. I	U.S. Dollar	124.54 11.96	538.42
		Concrete Transport Onsi			140.07	Detail	U.S. Dollai		
Resource Code	Description		Hours	Quantity UM			ency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	CY	3.07	1.00 Each	(hourly)	U.S. I	Dollar	74.29	227.94
L080940	TEAMSTER		3.07	1.00 Each	(hourly)	U.S. I		44.04	135.11
L010101	OPERATOR		1.53	0.50 Each	(hourly)	U.S. I		51.35	78.77
RFELWH09	CAT 966F LOADER, 4	.25CY	1.53	0.50 Each	(hourly)	U.S. I	Dollar	62.97	96.60
1.11.4	24.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	45.00	1,080.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			1,080.00 Each		U.S. I	Dollar	1.00	1,080.00
1.12	260.00 MW	Solar Array Removal		749.50	0.35	Detail	U.S. Dollar	42,625.03	11,082,509.00
1.12.1	260.00 MW	Fence Removal		13.06	19.91	Detail	U.S. Dollar	260.18	67,647.36
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L010101	OPERATOR	·	391.80	3.00 Each	(hourly)	U.S. I	Dollar	51.35	20,117.72
L060100	GENERAL LABORER		783.61	6.00 Each	(hourly)	U.S. I	Dollar	44.04	34,508.00
RBACKH09	Deere 710J BACKHO	E, 1.62CY	391.80	3.00 Each	(hourly)	U.S. I	Dollar	33.24	13,021.63
Notes.	ume 26 LF of fence per acre.								
1.12.2	260.00 MW	Inverter / Transformer Re	emoval	262.00	0.99	Detail	U.S. Dollar	2,816.88	732,388.50
1.12.2.1	131.00 Each	Disconnect Electrical		131.00	1.00	Detail	U.S. Dollar	1,288.00	168,727.86
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
	r · ·		-				•		

			Cos	t Item					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
L010110	ELECTRCIAN		1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	73.70	96,543.91
L060100	GENERAL LABORER		1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	44.04	57,688.80
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	11.07	14,495.15
1.12.2.2	131.00 Each	Loadout Inverter & Tra	nsformer	131.00	1.00	Detail	U.S. Dollar	2,927.75	383,535.64
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		5,240.00	4.00 Each	(hourly)	U.S. [	Dollar	44.04	230,755.19
L010101	OPERATOR		1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	51.35	67,263.65
RHYDCR06	GROVE RT880 73 TO	N	1,310.00	1.00 Each	(hourly)	U.S. [	Dollar	65.28	85,516.80
1.12.2.3	131.00 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	180,125.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			180,125.00 Each		U.S. [	Dollar	1.00	180,125.00
1.12.3	260.00 MW	Remove Foundations	To Subgrade	169.93	1.53	Detail	U.S. Dollar	1,313.24	341,441.48
Assi tran:	umption: 24x36x1 concrete pag sformer 12,521.00 Cubic Yard	d per inverter/	oundation	44.72	280.00	Detail	U.S. Dollar	15.44	193,283.93
	December 1		Harris	Overette IIM		0		Unit Cont	Tatal Coat
Resource Code	Description		<b>Hours</b> 447.18	Quantity UM	/h a	Curr U.S. I		Unit Cost 44.04	Total Cost
L060100	GENERAL LABORER			1.00 Each					19,692.51
L010101 *REXCAV06C	OPERATOR Excav 100K w/ Hamme	Ar.	894.36 447.18	2.00 Each 1.00 Each	,	U.S. I U.S. I		51.35 160.97	45,921.93 71,980.10
*REXCAV06C	Excav 100K w/ Harring		447.18	1.00 Each	,	U.S. I		124.54	55,689.38
1.12.3.2	12,521.00 Cubic Yard	Concrete Transport Of		125.21	100.00		U.S. Dollar	11.83	148,157.55
Resource Code	Description		Hours	Quantity UM		Curr	encv	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-240	CY	1,252.10	1.00 Each	(hourly)	U.S. [		74.29	93,018.51
L080940	TEAMSTER		1,252.10	1.00 Each	. ,,	U.S. [		44.04	55,139.04
1.12.4	260.00 MW	Solar Panel Removal		170.17		Detail	U.S. Dollar	15,508.04	4,032,089.83
1.12.4.1	816,812.00 Each	Solar Panel Removal		170.17	4,800.00	Detail	U.S. Dollar	3.11	2,543,759.83
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FF	RKLFT	10,210.15	6.00 Each	(hourly)	U.S. [	Dollar	21.65	220,998.70
L010101	OPERATOR		10,210.15	6.00 Each	(hourly)	U.S. [	Dollar	51.35	524,253.42
L060100	GENERAL LABORER		40,840.60	24.00 Each	(hourly)	U.S. [	Dollar	44.04	1,798,507.71
Assi	umed production: 20 panels pe udes packaging and preparing	er laborer per hour,							
1.12.4.2	726.00 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	998,250.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			998,250.00 Each		U.S. [	Dollar	1.00	998,250.00
Assı	umption: 45,000 lbs per load								
1.12.4.3	16,336.00 Ton	Disposal Cost		0.00	0.00	Detail	U.S. Dollar	30.00	490,080.00

			Cost	Item				
CBS Position Code	Quantity UM	Description		Days	Cost UM/Day Sour	ce Currency	Unit Cost	Total Cost
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			490,080.00 Each	U	.S. Dollar	1.00	490,080.00
1.12.5	260.00 MW	Solar Rack (Trackers	) & Post Removal	134.34	1.94 Detai	U.S. Dollar	22,726.70	5,908,941.83
1.12.5.1	21,495.00 Each	Solar Rack (Trackers	) & Post Removal	134.34	160.00 Detai	U.S. Dollar	250.40	5,382,316.83
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
L010101	OPERATOR		21,495.00	16.00 Each	(hourly) U	.S. Dollar	51.35	1,103,688.72
L060100	GENERAL LABORER		21,495.00	16.00 Each	(hourly) U	.S. Dollar	44.04	946,580.69
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	10,747.50	8.00 Each	(hourly) U	.S. Dollar	124.54	1,338,439.91
*REXCAV06E	Excav 100K w/ Shear		10,747.50	8.00 Each	(hourly) U	.S. Dollar	185.50	1,993,607.51
1 e: labo and 6 pi	sumed production: .5 hour per nacavator w/shear, 1 excavator v/shear, 1 excavator vorers. Includes post removal and I loadout to haul trucks.	w/grapple, 2 operators id sizing of steel for sal	and 2 e as scrap,	0.00	0.00 Detai	U.S. Dollar	1,375.00	526.625.00
1.12.5.2	000.00 Edon	Tracking 1 of Load		0.00	0.00 Dotai	O.O. Dollar	1,070.00	020,020.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			526,625.00 Each	U	.S. Dollar	1.00	526,625.00
	sumption: 45,000 lbs per load							
1.13	120.00 MW	DC Storage System I	Removal	90.91	1.32 Detai	U.S. Dollar	3,610.96	433,314.64
1.13.1	120.00 MW	Battery Removal & D	isposal	79.00	1.52 Detai	U.S. Dollar	2,655.68	318,681.26
1.13.1.1	79.00 Day	Remove Batteries, Lo	oad For Transport	79.00	1.00 Detai	U.S. Dollar	1,977.94	156,257.26
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
L060100	GENERAL LABORER		3,160.00	4.00 Each	(hourly) U	.S. Dollar	44.04	139,157.71
RLIFTS05	JCB 508C, 8,000lbs FF	RKLFT	790.00	1.00 Each	(hourly) U	.S. Dollar	21.65	17,099.55
1.13.1.2	40.00 Each	Transport Batteries		0.00	0.00 Detai	U.S. Dollar	1,480.60	59,224.00
1.13.1.2.1	40.00 Each	Roll Off Liners		0.00	0.00 Detai	U.S. Dollar	105.60	4,224.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
UODCLINER	Rolloff Liner			40.00 Each	U	.S. Dollar	105.60	4,224.00
1.13.1.2.2	40.00 Each	Trucking - Per Load		0.00	0.00 Detai	U.S. Dollar	1,375.00	55,000.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			55,000.00 Each		.S. Dollar	1.00	55,000.00
1.13.1.3	516.00 Ton	Disposal Fee's		0.00	0.00 Detai	U.S. Dollar	200.00	103,200.00
Resource Code	Description		Hours	Quantity UM	(	Currency	Unit Cost	Total Cost
USDISPOSAL	Disposal Fee's			103,200.00 Each		.S. Dollar	1.00	103,200.00
1.13.2	120.00 MW	Structure & Compone	ents Removal	11.91	10.08 Detai	U.S. Dollar	955.28	114,633.38
1.13.2.1	516.00 Ton	Structure Demo		11.91	43.33 Detai	U.S. Dollar	115.57	59,633.38

1.13   2.2   40.00 Each				Cost	Item					
PRINCIPATION   Processing   P		Quantity UM	Description		Days			Currency	Unit Cost	Total Cost
SERRUCKING   Trucking Sub	1.13.2.2	40.00 Each	Trucking - Per Load		0.00	0.00	Detail	U.S. Dollar	1,375.00	55,000.00
1.14.1	Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.14.1   1.00 Lump Sum	USTRUCKING	Trucking Sub			55,000.00 Each		U.S. [	Dollar	1.00	55,000.00
1.14.1.1.1   13.10 Mile	1.14	1.00 Lump Sum		oval (OH, 34.5	27.03	0.04 [	Detail	U.S. Dollar	183,487.18	183,487.18
1.14.1.1.1   9.10 Mile	1.14.1	1.00 Lump Sum	Transmission Line - Win	ıd	16.85	0.06 [	Detail	U.S. Dollar	114,361.97	114,361.97
Resource Code	1.14.1.1	9.10 Mile	Conductor Removal		13.65	0.67 [	Detail	U.S. Dollar	7,589.83	69,067.46
1.000100   GENERAL LABORER   682.50   5.00 Each (hourly)   U.S. Dollar   44.04   30,055	1.14.1.1.1	9.10 Mile	Cut / Lower Cable, Size	& Loadout	13.65	0.67 [	Detail	U.S. Dollar	6,682.69	60,812.46
1.00   1.00	Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
PRXMISC14   MAN LIFT GAS 125R   136.50   1.00 Each (hourly)   U.S. Dollar   53.52   7.305	L060100	GENERAL LABORER		682.50	5.00 Each	(hourly)	U.S. [	Dollar	44.04	30,055.42
RELFESOS JCB 508C, 8,000lbs FRKLFT 136.50 1.00 Each (hourly) U.S. Dollar 21.65 2,954 RXMINSC19 Material Handler 138.50 1.00 Each (hourly) U.S. Dollar 98.82 13.488 1.14.1.1.2 127.00 Ton Scrap Trucking Cost 0.00 0.00 Detail U.S. Dollar 65.00 8.255 1.14.1.1.1.2 127.00 Ton Scrap Trucking Cost 0.00 0.00 Detail U.S. Dollar 10.00 8.255 Resource Code Description Hours Quantity UM Currency Unit Cost 70 tal C USTRUCKING Trucking Sub 8.255.00 Each U.S. Dollar 1.00 8.255 Notes: Cable estimated at 14 fors per mile  1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 235.91 45.294 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 179.66 34.494 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 124.54 15.940 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 124.54 15.940 1.14.1.2 192.00 Each Remove Wood Poles 3.20 60.00 Detail U.S. Dollar 124.54 15.940 1.14.1.2 192.00 Each Remove Wood Poles 3.20 Each (hourly) U.S. Dollar 124.54 15.940 1.14.1.2 192.00 Each Remove Wood Poles 3.20 Each (hourly) U.S. Dollar 124.54 15.940 1.14.1.2 1.00 Detail U.S. Dollar 124.54 15.940 1.14.1.2 1.00 Each Remove Wood Poles 3.20 Each (hourly) U.S. Dollar 124.55 15.35 6.572 1.14.1.2 1.00 Lump Sum 124.54 15.00 Each (hourly) U.S. Dollar 125.54 15.00 Each (hourly) U.S. Dollar 125.54 15.00 Each (hourly)	L010101	OPERATOR		136.50	1.00 Each	(hourly)	U.S. [	Dollar	51.35	7,008.77
RXMISC19   Material Handler   136.50   1.00 Each (hourly)   U.S. Dollar   98.82   13.488   1.14.1.12   127.00 Ton   Scrap Trucking Cost   0.00   0.00 Detail   U.S. Dollar   0.500   8.255   1.14.1.12   1.00 Each   1.00   8.255   1.00 Each	*RXMISC14	MAN LIFT GAS 125ft		136.50	1.00 Each	(hourly)	U.S. [	Oollar	53.52	7,305.48
Resource Code   Description   Hours   Quantity UM   Currency   Unit Cost   Total C	RLIFTS05	JCB 508C, 8,000lbs FI	RKLFT	136.50	1.00 Each	(hourly)	U.S. [	Dollar	21.65	2,954.54
1.14.1.12	*RXMISC19	Material Handler		136.50	1.00 Each	(hourly)	U.S. [	Dollar	98.82	13,488.25
Notes	1.14.1.1.2	127.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	65.00	8,255.00
Notes: Cable estimated at 14 tons per mile	Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
1.14.1.2	USTRUCKING	Trucking Sub			8,255.00 Each		U.S. [	Dollar	1.00	8,255.00
192.00 Each   Remove Wood Poles   3.20   60.00 Detail   U.S. Dollar   179.66   34.494	****	*******			3.20	60.00 [	Detail	U.S. Dollar	235.91	45,294.50
REXCAV06A   Excav 100K w/ Bucket & Grapple   128.00   4.00 Each (hourly)   U.S. Dollar   124.54   15,940		192.00 Each	Remove Wood Poles		3.20	60.00 [	Detail	U.S. Dollar	179.66	34,494.50
L060100   GENERAL LABORER   256.00   8.00   Each (hourly)   U.S. Dollar   44.04   11,273	Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100   GENERAL LABORER   256.00   8.00 Each (hourly)   U.S. Dollar   44.04   11,273	*REXCAV06A	Excav 100K w/ Bucket	& Grapple	128.00	4.00 Each	(hourly)	U.S. [	Dollar	124.54	15,940.48
RPUTRK05   F-250 4X4 3/4 TON PICKUP   64.00   2.00 Each (hourly)   U.S. Dollar   11.07   708	L060100			256.00			U.S. [	Dollar	44.04	11,273.54
1.14.1.2.2	L010101	OPERATOR		128.00	4.00 Each	(hourly)	U.S. [	Dollar	51.35	6,572.33
1.14.1.2.2   1.00 Lump Sum   Transmission Line - Solar   10.18   0.10 Detail   U.S. Dollar   1.00 Detail   U.S. Dollar   1.00 July   1.14.2.1   1.00 Lump Sum   Transmission Line - Solar   1.01 B.2.5   0.67 Detail   U.S. Dollar   1.00 July   1.14.2.1   1.00 Lump Sum   Transmission Line - Solar   1.00 Lump Sum   1.00	RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	64.00	2.00 Each	(hourly)	U.S. [	Dollar	11.07	708.16
USTRUCKING   Trucking Sub   10,800.00 Each   U.S. Dollar   1.00   10,800.00	1.14.1.2.2	144.00 Ton	Pole Trucking Cost		0.00	0.00	Detail	U.S. Dollar	75.00	10,800.00
Notes:	Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
Poles estimated at .75 tons per pole. Disposal cost has been excluded, as the poles are valued for fencing and retaining walls  1.14.2	USTRUCKING	Trucking Sub			10,800.00 Each		U.S. [	Dollar	1.00	10,800.00
1.14.2.1	Pole	s estimated at .75 tons per po	le. Disposal cost has beer	n excluded, as th	e poles are valued	for fencing	and retair	ning walls		
1.14.2.1         5.50 Mile         Cut / Lower Cable, Size & Loadout         8.25         0.67 Detail         U.S. Dollar         6,682.69         36,754           Resource Code         Description         Hours         Quantity UM         Currency         Unit Cost         Total Cost           L060100         GENERAL LABORER         412.50         5.00 Each (hourly)         U.S. Dollar         44.04         18,165           L010101         OPERATOR         82.50         1.00 Each (hourly)         U.S. Dollar         51.35         4,236           *RXMISC14         MAN LIFT GAS 125ft         82.50         1.00 Each (hourly)         U.S. Dollar         53.52         4,415	1.14.2	1.00 Lump Sum	Transmission Line - Sola	ar	10.18	0.10 [	Detail	U.S. Dollar	69,125.21	69,125.21
S.50 Mile         Cut / Lower Cable, Size & Loadout         8.25         0.67 Detail         U.S. Dollar         6,682.69         36,754           Resource Code         Description         Hours         Quantity UM         Currency         Unit Cost         Total Cost           L060100         GENERAL LABORER         412.50         5.00 Each (hourly)         U.S. Dollar         44.04         18,165           L010101         OPERATOR         82.50         1.00 Each (hourly)         U.S. Dollar         51.35         4,236           *RXMISC14         MAN LIFT GAS 125ft         82.50         1.00 Each (hourly)         U.S. Dollar         53.52         4,415	1 14 2 1	5.50 Mile	Conductor Removal		8.25	0.67 [	Detail	U.S. Dollar	7,592.69	41,759.79
L060100         GENERAL LABORER         412.50         5.00 Each (hourly)         U.S. Dollar         44.04         18,165.           L010101         OPERATOR         82.50         1.00 Each (hourly)         U.S. Dollar         51.35         4,236.           *RXMISC14         MAN LIFT GAS 125ft         82.50         1.00 Each (hourly)         U.S. Dollar         53.52         4,415.		5.50 Mile	Cut / Lower Cable, Size	& Loadout	8.25	0.67 [	Detail	U.S. Dollar	6,682.69	36,754.79
L060100         GENERAL LABORER         412.50         5.00 Each (hourly)         U.S. Dollar         44.04         18,165.           L010101         OPERATOR         82.50         1.00 Each (hourly)         U.S. Dollar         51.35         4,236.           *RXMISC14         MAN LIFT GAS 125ft         82.50         1.00 Each (hourly)         U.S. Dollar         53.52         4,415.	Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L010101         OPERATOR         82.50         1.00 Each (hourly)         U.S. Dollar         51.35         4,236.           *RXMISC14         MAN LIFT GAS 125ft         82.50         1.00 Each (hourly)         U.S. Dollar         53.52         4,415.	L060100	GENERAL LABORER		412.50		(hourly)	U.S. [	Dollar		18,165.37
*RXMISC14 MAN LIFT GAS 125ft 82.50 1.00 Each (hourly) U.S. Dollar 53.52 4,415.		OPERATOR								4,236.07
						` ,,				4,415.40
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			Cost Ite	em					
CBS Position Code	Quantity UM	Description		Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FI	RKLFT	82.50	1.00 Each	(hourly)	U.S. [	Dollar	21.65	1,785.71
*RXMISC19	Material Handler		82.50	1.00 Each	(hourly)	U.S. [	Dollar	98.82	8,152.24
1.14.2.1.2	77.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	65.00	5,005.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			5,005.00 Each		U.S. [	Dollar	1.00	5,005.00
Cab	le estimated at 14 tons per mil	е							
1.14.2.2	116.00 Each	Remove Wood Poles		1.93	60.00	Detail	U.S. Dollar	235.91	27,365.43
1.14.2.2.1	116.00 Each	Remove Wood Poles		1.93	60.00	Detail	U.S. Dollar	179.66	20,840.43
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	77.33	4.00 Each	(hourly)	U.S. [	Dollar	124.54	9,630.71
L060100	GENERAL LABORER		154.67	8.00 Each	(hourly)	U.S. [	Oollar	44.04	6,811.09
L010101	OPERATOR		77.33	4.00 Each	(hourly)	U.S. [	Dollar	51.35	3,970.78
RPUTRK05	F-250 4X4 3/4 TON PI	CKUP	38.67	2.00 Each	(hourly)	U.S. [	Dollar	11.07	427.85
1.14.2.2.2	87.00 Ton	Pole Trucking Cost		0.00	0.00	Detail	U.S. Dollar	75.00	6,525.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			6,525.00 Each		U.S. [	Dollar	1.00	6,525.00
Pole *****	es estimated at .75 tons per po	le. Disposal cost has be		poles are valued 62.10	for fencing 0.02		u.S. Dollar	500,707.43	500,707.43
1.15.1	32.00 Mile	Conductor Removal		48.00	0.67	Detail	U.S. Dollar	7,592.69	242,966.02
1.15.1.1	32.00 Mile	Cut / Lower Cable, Siz	ze & Loadout	48.00	0.67	Detail	U.S. Dollar	6,682.69	213,846.02
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
L060100	GENERAL LABORER		2,400.00	5.00 Each	(hourly)	U.S. [		44.04	105,689.40
L010101	OPERATOR		480.00	1.00 Each	(hourly)	U.S. [	Dollar	51.35	24,646.22
*RXMISC14	MAN LIFT GAS 125ft		480.00	1.00 Each	(hourly)	U.S. [	Dollar	53.52	25,689.60
RLIFTS05	JCB 508C, 8,000lbs FI	RKLFT	480.00	1.00 Each	(hourly)	U.S. [	Oollar	21.65	10,389.60
*RXMISC19	Material Handler		480.00	1.00 Each	(hourly)	U.S. [	Dollar	98.82	47,431.20
1.15.1.2	448.00 Ton	Scrap Trucking Cost		0.00	0.00	Detail	U.S. Dollar	65.00	29,120.00
Resource Code	Description		Hours	Quantity UM		Curr	ency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			29,120.00 Each		U.S. [	Dollar	1.00	29,120.00
Cab	le estimated at 14 tons per mil	e							
1.15.2	282.00 Each	Remove Wood Monop	poles	14.10	20.00	Detail	U.S. Dollar	913.98	257,741.40
1.15.2.1	282.00 Each	Remove Wood Monop	poles	14.10	20.00	Detail	U.S. Dollar	538.98	151,991.40
	Daniel de		p	Our eff 125				11-200-1	T. (-1.5)
*PEXCAVOGA	Description	0 Cronnia	Hours	Quantity UM	/ha::l: \	Curr		Unit Cost	Total Cost
*REXCAV06A	Excav 100K w/ Bucket	& Grapple	564.00	4.00 Each	, ,,	U.S. [		124.54	70,237.74
L060100	GENERAL LABORER		1,128.00	8.00 Each	,	U.S. [		44.04 51.35	49,674.02
L010101	OPERATOR		564.00	4.00 Each	(nourly)	U.S. [	Juligi	51.35	28,959.31

			Cost I	tem					
CBS Position Code	Quantity UM	Description		Days	UM/Day S	Cost Source	Currency	Unit Cost	Total Cos
RPUTRK05	F-250 4X4 3/4 TON P	ICKUP	282.00	2.00 Each	(hourly)	U.S.	Dollar	11.07	3,120.33
1.15.2.2	1,410.00 Ton	Pole Trucking Cost		0.00	0.00	Detail	U.S. Dollar	75.00	105,750.00
Resource Code	Description		Hours	Quantity UM		Curi	rency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub			105,750.00 Each		U.S.	Dollar	1.00	105,750.00
Notes.	od monopoles estimated at 5 t		ost has been exclud	ded, as the poles a	re valued fo	or fencino	g and retaining wall	s	
1.16	1.00 Lump Sum	O&M Building Remova		6.48	0.15 [	Detail	U.S. Dollar	21,164.02	21,164.02
1.16.1	40.00 Ton	Structure Demo		2.00	20.00 [	Detail	U.S. Dollar	250.40	10,015.94
1.16.2	320.00 Cubic Yard	Remove Foundations 1	Го Subgrade	4.48	71.43 [	Detail	U.S. Dollar	34.84	11,148.07
1.16.2.1	320.00 Cubic Yard	Excavate / Remove Fo Depth	undation - Various	1.28	250.00 [	Detail	U.S. Dollar	17.29	5,532.54
Resource Code	Description		Hours	Quantity UM		Curi	rency	Unit Cost	Total Cost
L060100	GENERAL LABORER	}	12.80	1.00 Each	(hourly)	U.S.	Dollar	44.04	563.68
L010101	OPERATOR		25.60	2.00 Each	(hourly)	U.S.	Dollar	51.35	1,314.47
*REXCAV06C	Excav 100K w/ Hamm	ner	12.80	1.00 Each	(hourly)	U.S.	Dollar	160.97	2,060.35
*REXCAV06A	Excav 100K w/ Bucke	t & Grapple	12.80	1.00 Each	(hourly)	U.S.	Dollar	124.54	1,594.05
1.16.2.2	320.00 Cubic Yard	Concrete Transport Off	fsite	3.20	100.00 [	Detail	U.S. Dollar	17.55	5,615.53
Resource Code	Description		Hours	Quantity UM		Curi	rency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	ICY	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	44.04	1,409.19
L010101	OPERATOR		16.00	0.50 Each	(hourly)	U.S.	Dollar	51.35	821.54
RFELWH09	CAT 966F LOADER,	4.25CY	16.00	0.50 Each	(hourly)	U.S.	Dollar	62.97	1,007.52
1.17	61.00 Mile	Private Access Road R Roads)	lemoval (New	30.50	2.00 [	Detail	U.S. Dollar	5,676.59	346,272.20

Notes:

Assume topsoil removed during original construction

is available for restoration

43.00 Mile

	Roads) - Wind					
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	860.00	4.00 Each (hourly)	U.S. Dollar	51.35	44,157.82
L060100	GENERAL LABORER	430.00	2.00 Each (hourly)	U.S. Dollar	44.04	18,936.02
L080940	TEAMSTER	860.00	4.00 Each (hourly)	U.S. Dollar	44.04	37,872.04
RDUTRK06	CAT D350D, 18CY-24CY	860.00	4.00 Each (hourly)	U.S. Dollar	74.29	63,889.40
RFELWH09	CAT 966F LOADER, 4.25CY	860.00	4.00 Each (hourly)	U.S. Dollar	62.97	54,154.20
*RDOZER08	CAT D6 LGP Dozer	430.00	2.00 Each (hourly)	U.S. Dollar	58.34	25,084.05
notes:	**************************************	_				

21.50

9.00

2.00 Detail

2.00 Detail

U.S. Dollar

U.S. Dollar

5,676.59

5,676.59

244,093.52

Private Access Road Removal (New

Private Access Road Removal (New

Assume topsoil removed during original construction is available for restoration

18.00 Mile

	Roads) - Sol	ar				
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	360.00	4.00 Each (hourly)	U.S. Dollar	51.35	18,484.67
L060100	GENERAL LABORER	180.00	2.00 Each (hourly)	U.S. Dollar	44.04	7,926.71
L080940	TEAMSTER	360.00	4.00 Each (hourly)	U.S. Dollar	44.04	15,853.41

1.17.2

1.17.1

102,178.68

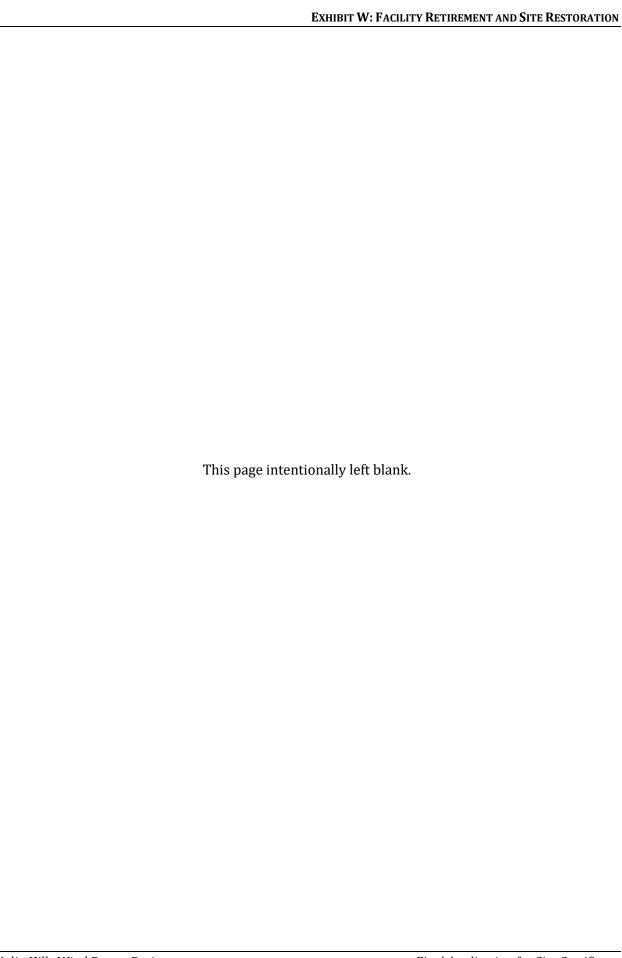
		Cost Ite	em					
CBS Position Code	Quantity UM	Description	Days	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24	4CY 360.00	4.00 Each	(hourly)	U.S. D	ollar	74.29	26,744.40
RFELWH09	CAT 966F LOADER,	4.25CY 360.00	4.00 Each	(hourly)	U.S. D	ollar	62.97	22,669.20
RDOZER08	CAT D6 LGP Dozer	180.00	2.00 Each	(hourly)	U.S. D	ollar	58.34	10,500.30
Notes:								
	Assume topsoil removed during of is available for restoration	·						
1.18	380.00 Acre	Spot Grade Disturbed Areas - Solar Array	47.50	8.00	Detail	U.S. Dollar	548.41	208,394.47
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	1,900.00	4.00 Each	(hourly)	U.S. D	ollar	58.34	110,836.50
_010101	OPERATOR	1,900.00	4.00 Each	(hourly)	U.S. D	ollar	51.35	97,557.97
Notes:	*******							
	Assumtion: 1896 acres total array Assume that 20% of the array are will be regraded.	ea distrubed by construction						
1.19	1.00 Lump Sum	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	0.00	Detail	U.S. Dollar	516,375.00	516,375.00
Notes:	*******	****						
	Assume topsoil removed during of is available for restoration	•						
1.19.1	1.00 Lump Sum	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction - Wind	0.00	0.00	Detail	U.S. Dollar	209,610.00	209,610.00
1.19.1.1	50.00 Acre	Re-Seed Road Beds	0.00	0.00	Detail	U.S. Dollar	765.00	38,250.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		50.00 Acre		U.S. D	ollar	765.00	38,250.00
Notes:	1.45 acres per mile of road							
1.19.1.2	224.00 Acre	Re-Seed Turbine Locations	0.00	0.00	Detail	U.S. Dollar	765.00	171,360.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
JSLANDSCAPE	Landscape Sub		224.00 Acre		U.S. D	ollar	765.00	171,360.00
Notes:	**************************************	tion						
1.19.2	1.00 Lump Sum	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction - Solar	0.00	0.00	Detail	U.S. Dollar	306,765.00	306,765.00
1.19.2.1	21.00 Acre	Re-Seed Road Beds	0.00	0.00	Detail	U.S. Dollar	765.00	16,065.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
JSLANDSCAPE	Landscape Sub		21.00 Acre		U.S. D	ollar	765.00	16,065.00
Notes:	1.45 acres per mile of road							
1.19.2.2	380.00 Acre	Re-Seed Solar Array Area	0.00	0.00	Detail	U.S. Dollar	765.00	290,700.00
Resource Code	e Description	Hours	Quantity UM		Curre	ncy	Unit Cost	Total Cost
JSLANDSCAPE	Landscape Sub		380.00 Acre		U.S. D	ollar	765.00	290,700.00
Notes:	**************************************	tion						

Re-Seed 2 acres per turbine location

CBS	Owently 1994	Description	_	Cost	0	11.24.0	T. (.) 0
Position Code	Quantity UM	Description	Days	UM/Day Source	Currency	Unit Cost	Total Cost
1.20	1.00 Lump Sum	Scrap Metals Credit	0.00	0.00 Detail	U.S. Dollar	(9,943,992.00)	(9,943,992.00)
1.20.1	1.00 Lump Sum	Scrap Metals Credit - Wind	0.00	0.00 Detail	U.S. Dollar	(7,145,064.00)	(7,145,064.00)
1.20.1.1	32,032.00 Ton	Scrap Metals Credit - WTG	0.00	0.00 Detail	U.S. Dollar	(216.00)	(6,918,912.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
IODCFERROUS	Ferrous Metal Scrap		32,032.00 Ton	U.S. [	Dollar	(216.00)	(6,918,912.00)
1.20.1.2	896.00 Ton	Scrap Metals Credit - Pad Mount Transformer	0.00	0.00 Detail	U.S. Dollar	(216.00)	(193,536.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		896.00 Ton	U.S. [	Dollar	(216.00)	(193,536.00)
1.20.1.3	24.00 Ton	Scrap Metals Credit - MET Tower	0.00	0.00 Detail	U.S. Dollar	(216.00)	(5,184.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		24.00 Ton	U.S. [	Dollar	(216.00)	(5,184.00)
1.20.1.4	127.00 Ton	Scrap Metals Credit - T Line	0.00	0.00 Detail	U.S. Dollar	(216.00)	(27,432.00)
Resource Code	Description	Hours	Quantity UM	Curr	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		127.00 Ton	U.S. [	Dollar	(216.00)	(27,432.00)
1.20.2	1.00 Lump Sum	Scrap Metals Credit - Solar	0.00	0.00 Detail	U.S. Dollar	(2,521,800.00)	(2,521,800.00)
1.20.2.1	77.00 Ton	Scrap Metals Credit - T Line	0.00	0.00 Detail	U.S. Dollar	(216.00)	(16,632.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		77.00 Ton	U.S. [	Dollar	(216.00)	(16,632.00)
1.20.2.2	8,598.00 Ton	Scrap Credit - Solar Rack	0.00	0.00 Detail	U.S. Dollar	(216.00)	(1,857,168.00)
Resource Code	Description	Hours	Quantity UM	Curr	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		8,598.00 Ton	U.S. [	Oollar	(216.00)	(1,857,168.00)
Ass	ume 800 Lbs per rack w/ 6 pil	es					
1.20.2.3	3,000.00 Ton	Scrap Credit - Inverters / Transformers	0.00	0.00 Detail	U.S. Dollar	(216.00)	(648,000.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		3,000.00 Ton	U.S. [	Dollar	(216.00)	(648,000.00)
1.20.3	1.00 Lump Sum	Scrap Metals Credit - Shared Facilities	0.00	0.00 Detail	U.S. Dollar	(277,128.00)	(277,128.00)
1.20.3.1	300.00 Ton	Scrap Metals Credit - Transformer & Switchyard	0.00	0.00 Detail	U.S. Dollar	(216.00)	(64,800.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		300.00 Ton	U.S. [	Dollar	(216.00)	(64,800.00)
1.20.3.2	20.00 Ton	Scrap Metals Credit - Control Building	0.00	0.00 Detail	U.S. Dollar	(216.00)	(4,320.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
JODCFERROUS	Ferrous Metal Scrap		20.00 Ton	U.S. [	Dollar	(216.00)	(4,320.00)
1.20.3.3	448.00 Ton	Scrap Metals Credit - T Line	0.00	0.00 Detail	U.S. Dollar	(216.00)	(96,768.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
0/20/2020 2:32 DM		Copyright @010 InFight I	no All Dights Boss	nıod			13 of 1/

		Cost Ite	em				
CBS Position Code	Quantity UM	Description	Days	Cost UM/Day Source	Currency	Unit Cost	Total Cost
UODCFERROUS	Ferrous Metal Scrap		448.00 Ton	U.S. D	)ollar	(216.00)	(96,768.00)
1.20.3.4	515.00 Ton	Scrap Credit - Battery System Structures	0.00	0.00 Detail	U.S. Dollar	(216.00)	(111,240.00)
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
UODCFERROUS	Ferrous Metal Scrap		515.00 Ton	U.S. D	Oollar	(216.00)	(111,240.00)
1.21	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	0.00 Detail	U.S. Dollar	1,287,711.50	1,287,711.50
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
USMARKUP5	5% Markup	25,	754,230.00 Each	U.S. D	)ollar	0.05	1,287,711.50
1.22	1.00 Lump Sum	Contractor Contingency (3% Of Cost)	0.00	0.00 Detail	U.S. Dollar	811,258.23	811,258.23
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
USCONTINGENCY	3% Contingency	27,	041,941.00 Each	U.S. D	)ollar	0.03	811,258.23
1.23	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	0.00 Detail	U.S. Dollar	3,620,915.87	3,620,915.87
Resource Code	Description	Hours	Quantity UM	Curre	ency	Unit Cost	Total Cost
USMARKUP	13% Markup	27,	853,199.00 Each	U.S. D	)ollar	0.13	3,620,915.87
Report Total:			1,939.10				21,530,123.16
Category					Total		
Labor Rented Equipment Supplies Materials Subcontract ODCs Scrap Credit				6,3 3 16,0 5	34,557.53 07,830.93 8,484.00 04,000.00 75,642.70 43,600.00 13,992.00)		

	EXHIBIT W: FACILITY RETIREMENT AND SITE RESTORATION
Attachment W.3	<b>Memorandum to ODOE</b>
Attachment W Si	Memorandam to obot
Volin Hills Wind Power Project	Final Application for Site Certificate





# **MEMO**

To:	Katie Clifford, Oregon Department of Energy
From:	Capital Power / Tetra Tech
Date:	Friday, August 28, 2020
Subject:	Response to Request for Additional Information (RAI) W-2

The following is our response to RAI W-2.

#### **RAI W-2:**

While the Department understands the Applicant's proposal regarding compliance with the Retirement and Financial Assurance standard, and the Department will fairly portray the applicant's proposal in the Draft Proposed Order, please note that the Department intends to make the same (or similar) recommendations in the Draft Proposed Order regarding scrap value, the Department's management fees, and contingency amounts as the Department did in the Bakeoven Solar Project Proposed Order. The Department has received clear direction from EFSC in this regard.

#### Response:

The Applicant feels strongly that the Department is overestimating management costs as a high percentage of the cost of retiring the facility in addition to management costs already factored into the estimate and that scrap value should be incorporated into the retirement cost estimate. Specific to recommendations described in the Final Order for the Bakeoven Solar Project (Bakeoven), the Applicant offers the following supplemental input.

## Department Project Management Cost

In Bakeoven (p. 134), the Council found that the Applicant's "project management contingency" included in Exhibit W was not supported by evidence. The Applicant for Nolin Hills asserts that its estimate for the costs to the Department for project management is based on an assumed level of effort based on construction and cost estimation experience. We would respectfully ask that, if the Department disagrees with the estimated level of effort or cost of labor for its own employees to manage and oversee the contractor who executes decommissioning activities and to handle any associated legal issues, it provide an

<sup>&</sup>lt;sup>1</sup> EFSC (Energy Facility Siting Council), 2020, In the Matter of the Application for Site Certificate for the Bakeoven Solar Project: Final Order on Application for Site Certificate. April 24.

alternative estimate rather than defaulting to 10 percent. For this project, 10 percent of the total estimated cost amounts to between \$1.4 million and \$1.6 million (for the two project layouts provided), or the equivalent of six full-time employees (FTEs) for one year. The Applicant notes that the historical precedent of using a 10 percent project management estimate implicitly included both Department and contractor management costs. The precedent was based on the 2005 Facility Retirement Cost Estimating Guide, which is no longer in use. The Guide included a 10 percent markup for administration and project management, which was not broken up by ODOE costs vs. contractor costs and implicitly included both. Since the Department no longer relies on the 2005 Guide, the Applicant's retirement cost estimate in Exhibit W breaks out these two costs separately and estimates both based on best practice and best available information.

In the Bakeoven example cited in the RAI, the Department elected to ignore the applicant's (i.e., Avangrid's) estimate based on best available information and instead arbitrarily apply an additional 10 percent on top of the total dollar amount of the applicant's estimate, which included contractor management costs; this resulted in a significant exceedance of precedent for this cost. More specifically, if the 2005 Guide were still in force, Administration and Project Management for Nolin Hills would have been estimated at 10 percent of the total cost, in this case \$1,275,854. The estimated total of contractor and applicant project management cost in the cost estimate provided with Exhibit W is consistent with this amount (\$655,577 for contractor management costs, plus \$533,000 for Department management costs, for a total of \$1,188,577). If the Department applies a 10 percent ODOE management cost on top of the total Applicant estimated cost as it did with Bakeoven, the total estimated project management cost would be 15 percent of total cost instead of the precedent of 10 percent. As a result, the current approach is neither consistent with historical Department estimates nor based on information or evidence. The Applicant requests that, if the Department disagrees with the Applicant's estimate of two FTEs for 16 months, the Department provide a more realistic, evidence-based approach to estimating Department project management costs.

## Future Development Contingency

The Final Order on the Bakeoven Solar Project states that the AACE International (AACEI) Classification System guidance used in development of this cost estimate is "not intended to account for future uncertainties related to environmental standards, legal requirements, or changes in cost of labor and equipment in 30 to 50 years, which are the underlying factors considered in the Council's application of a future development contingency." The Applicant concurs that the Classification System guidance is not intended to account for changes in the cost of labor and equipment over time; those changes are accounted for by the annual adjustment of the bond or letter of credit based on the U.S. Gross Domestic Product Implicit Price Deflator, which is typically a condition added to all site certificates and one we would expect will be included here. Uncertainties related to environmental standards or legal requirements are in fact included in scope change, which is covered by the estimated contingency. Renewable energy facility decommissioning is low complexity demolition work, and the contingency added for scope change is intended to include potential changes related to environmental standards or legal requirements. It is important to note that the AACEI Classification System is intended for highly complex process industry construction, not low complexity demolition work, so we feel that using a contingency rate acceptable for

<sup>&</sup>lt;sup>2</sup> Bakeoven Final Order, p. 136.

highly complex work is taking a conservative approach. Because of the low complexity of decommissioning for renewable energy projects, the risk of such changes causing significant impact to the estimated cost of decommissioning is low. Therefore, the Department's decision in the case of Bakeoven to increase the applicant's future development contingency from 3 percent to 10 percent is not justified by evidence or best practice in estimating costs. The Applicant requests that the Department retain the 3 percent future development contingency for the Nolin Hills Project or provide more robust evidence for an alternate approach.

### Consideration of Scrap Value

1) Other states in the U.S. have issued rules or guidelines that accept scrap value (in some form) as a reasonable deduction to financial assurance amounts for decommissioning of wind facilities.

The Bakeoven Final Order describes a review of regulatory requirements applicable to industrial facility decommissioning completed by Golder that found no state or provincial-level permitting programs for mining and waste disposal landfill sites that supported use of the value of scrap metal to reduce a decommissioning bond requirement.

The review by Golder appears to have formed a major basis for the Council's decision not to alter its previous position of not accepting salvage material value to reduce the retirement bond amount, as evidenced in the following quotation:

Based on the above-summarized review by Golder, and as provided in Attachment B of this order, the Council determined that the underlying risk to the State of accepting salvage material value to reduce the retirement bond amount has not changed since the 2007 Council review and policy decision.<sup>3</sup>

The Applicant believes that the Council did not have complete information before it. While it appears that Golder's review may have been limited to certain industries and/or geographies, it missed the fact that several states in the U.S. do have rules in place related to wind facility decommissioning that allow for scrap value to be deducted (in some form) from the amount of financial assurance. An initial review of select states uncovered no less than five states that have rules or guidelines that consider or accept scrap value to reduce the amount of financial assurance related to retirement and decommissioning. These findings are summarized below:

- **Oklahoma:** For wind energy facilities that reach commercial generation on or after December 31, 2016, the amount of the evidence of financial security is set at 125 percent of the estimate of the total cost of decommissioning, minus the salvage value of the equipment. The evidence of financial security must be submitted by the fifth year of operation. Oklahoma has over 8,000 megawatts (MW) of installed wind energy generating capacity, with an additional 1,000 MW currently under construction.
- **Montana:** In determining the amount of a decommissioning bond for a wind facility, the department shall provide the owner with a preliminary bond determination, consult with

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<sup>&</sup>lt;sup>3</sup> Bakeoven Final Order, page 141.

<sup>&</sup>lt;sup>4</sup> 17 OK Stat §160.15 (http://www.oklegislature.gov/osstatuestitle.html)

the owner, and <u>consider</u>: (a) the character and nature of the site where the facility is located; and (b) the <u>current market salvage value of the facility</u>, as set forth in the decommissioning plan<sup>5</sup>. Montana's current regulations were implemented in 2020. Montana currently has over 800 MW of wind energy generating capacity and expects significant additional wind generation in the future.

- **North Dakota:** In determining the amount of a decommissioning bond, a decommissioning cost estimate, excluding salvage value of the turbines and equipment, is requested.<sup>6</sup> North Dakota has extensive experience with wind farms, with more than 3,000 MW of operating wind energy generating capacity and expressed interest from wind developers in more than 7,000 MW of additional wind generation<sup>7</sup>, demonstrating their experience and interest in a reasonable and reliable approach to assuring decommissioning costs will be covered appropriately.
- **Texas:** A wind developer's amount of financial assurance must be equal to at least the estimated amount of the cost of removal and restoration that exceeds the salvage value, less any portion of the value of the wind power facility that is pledged to secure the outstanding debt. With 29,405 MW of installed wind capacity and an additional 7,000 MW of wind capacity under construction or in advanced development<sup>9</sup>, Texas has demonstrated experience and interest in assuring reasonable and reliable decommissioning of project facilities.
- **Pennsylvania**: Pennsylvania has issued a Model Ordinance for local governments to refer to when dealing with wind development. These guidelines prescribe that a wind facility is required to post and maintain Decommissioning Funds in an amount equal to Net Decommissioning Costs. Net Decommissioning Costs are defined as the cost of decommissioning net the salvage value of the equipment. Estimates of the total decommissioning costs and net costs are to be submitted to the municipality after the first year of operation and every fifth year thereafter. At no point can Decommissioning Funds be less than 25 percent of total Decommissioning Costs. <sup>10</sup> Pennsylvania currently has over 1,300 MW of wind power generation capacity. <sup>11</sup>

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<sup>&</sup>lt;sup>5</sup> 17-86-106 Administrative Rules of Montana (http://mtrules.org/gateway/ShowRuleFile.asp?RID=39693)

<sup>&</sup>lt;sup>6</sup> North Dakota Century Code 69-09-09 Wind Facility Decommissioning (https://www.legis.nd.gov/information/acdata/pdf/69-09-09.pdf)

<sup>&</sup>lt;sup>7</sup> Bismarck State College National Energy Center of Excellence. 2019. Spotlight on North Dakota Energy: 2019 Annual Report. Available online at: <a href="https://www.energynd.com/wp-">https://www.energynd.com/wp-</a>

content/uploads/2020/04/Spotlight On Energy 2019 Web.pdf

<sup>&</sup>lt;sup>8</sup> Texas Utilities Code, Title 6 Chapter 301 Wind Power Facility Agreements (https://statutes.capitol.texas.gov/Docs/UT/pdf/UT.301.pdf)

<sup>&</sup>lt;sup>9</sup> AWEA (American Wind Energy Association). "Wind Energy in Texas." Available online at: https://www.awea.org/Awea/media/Resources/StateFactSheets/Texas.pdf

<sup>&</sup>lt;sup>10</sup> Pennsylvania DEP (Department of Environmental Protection). Model Ordinance for Wind Energy Facilities in Pennsylvania. Available online at:

http://files.dep.state.pa.us/Energy/Office%20of%20Energy%20and%20Technology/OETDPortalFiles/GrantsLoansTaxCredits/Model Wind Ordinance Final 3 21 06.pdf

<sup>&</sup>lt;sup>11</sup> Pennsylvania DEP. Wind Energy. Available online at:

 $<sup>\</sup>frac{\text{https://www.dep.pa.gov/Business/Energy/Wind/Pages/default.aspx\#:} \sim : text = There \% 20 are \% 20 currently \% 20 over \% 201300, power \% 20 nearly \% 20350 \% 20000 \% 20 Pennsylvania \% 20 homes.$ 

• Bureau of Land Management (BLM) Lands: BLM has completed programmatic Environmental Impact Statements and issued leases and rights-of-way under the Federal Land Policy and Management Act for solar and wind projects. BLM's wind guidelines do not explicitly discuss how to estimate decommissioning costs. However, the solar energy program guidelines describe preparation of a Reclamation Cost Estimate, which is defined under right-of-way regulations at 43 Code of Federal Regulations 2801.5 as the "estimate of costs to restore the land to a condition that will support pre-disturbance land uses." BLM's guidance document goes on to state that the estimate "must also include the BLM cost to administer any reclamation contract and may also consider other factors, such as salvage value of materials, when determining the bond amount." 12

These examples demonstrate there is significant precedent among numerous state and federal agencies for including scrap value when calculating decommissioning costs and bonding requirements.

2) Not allowing for consideration of scrap value assigns an excessive risk premium to the unlikely and largely mitigatable event of bankruptcy.

As shown in Exhibit W, without consideration of scrap value, retirement cost estimates for the project range from \$14.7 million to \$16.0 million dollars. These costs are nearly halved when scrap value is deducted, falling in the range of \$8.46 million to \$8.95 million dollars. The Applicant estimates, based on current debt ratings, that the additional cost for the delta, an incremental \$8 million dollars in letter of credit, would be approximately \$136,000 per annum, adjusted annually for the life of the project as typically required by site certificate conditions. Costs of this magnitude have a significant impact on project economics. Wind development is a competitive industry and, if such premiums are not reasonably mitigated, it could impede future development.

The Applicant believes that doubling the required bond amount is an excessive risk premium to pay to cover the unlikely event of bankruptcy. The Applicant believes there are certain realities related to the business of power generation, and wind generation more specifically, that significantly limit the risk of bankruptcy. These realities are well described by Avangrid in Bakeoven, and the SunEdison bankruptcy case<sup>13</sup> is illustrative of the low risk that bankruptcy poses for forcing decommissioning of such projects. Any potential fluctuation in scrap value could be easily dealt with through annual updates. The Applicant believes that any remaining uncertainty related to bankruptcy and how the State would rank relative to other creditors can be reasonably mitigated through readily available legal and commercial instruments, such as the proposal in Bakeoven for the developer to enter into an agreement with the Department (on behalf of the Council) to grant the Department a security interest in facility equipment salvage. The Applicant would be prepared to enter into a similar agreement for Nolin Hills.

3) The Applicant agrees that the Department's approach for determining the amount of financial assurance necessary for facility decommissioning needs to be evaluated and

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5

<sup>&</sup>lt;sup>12</sup> BLM Solar Energy Program. 2017. Performance and Reclamation Bond. Available online at: <a href="https://blmsolar.anl.gov/program/authorization-policies/bond/">https://blmsolar.anl.gov/program/authorization-policies/bond/</a>

<sup>&</sup>lt;sup>13</sup> See Bakeoven Final Order, p. 139.

addressed in rulemaking; however, the Applicant believes that the Council has the ability under today's rules to grant the request above related to allowing the deduction of scrap value.

The Applicant supports a rulemaking consultation related to updating rules related to retirement cost estimates. Such a process should not delay or defer issues that can be solved today, like the use of scrap value.