

Chris Fullarton

First Wind Energy, LLC

via e-mail: cfullarton@firstwind.com

August 20, 2013

Subject: Blue Sky West, LLC and Blue Sky West II, LLC (Bingham Wind Project) Decommissioning Budget

Dear Chris:

Sewall was requested to develop this Decommissioning Budget for the 62 Vestas wind turbine generator (WTG) Bingham Wind Project located in the towns of Bingham, Moscow, Parkman, Abbot, Mayfield TWP, and Kingsbury PLT in Somerset and Piscataquis Counties, Maine. The budget represents an opinion of probable cost (OPC), in today's dollars, for decommissioning based on the assumption that the wind turbines, and other project components will be disassembled and disposed following completion of use. The budget is also built on the assumption that the cost of decommissioning will be fully or partially offset by the scrap / salvage value of the towers and turbine components.

Based on information provided from First Wind, it is assumed that all new project roads will remain.

Information Sources for this Review

This review is based on the civil and electrical site plans and quantity information provided by First Wind, discussions with contractors familiar with this type of construction and our own experience with wind projects. Wage rates used in these estimates are based on the State of Maine Department of Labor, Bureau of Labor Standards; 2013 Fair Minimum Wage Rates, Heavy and Bridge; Somerset County.

Decommissioning Scope

The decommissioning process reflected in this OPC is based on Decommissioning Plans prepared for similar wind projects.

In summary, the decommissioning and restoration process in the Plan consists of the following steps:

- · Disassembly and removal of above-ground structures
- · Removal of below-ground structures to a depth of 24 inches
- · Re-grading and seeding

Above-ground structures include the turbines, transformers, substation, Dynamic Reactive Device, overhead collection and generator-lead lines, and meteorological towers. Below-ground structures include turbine and collection system foundations; and drainage control structures (e.g., culverts) as necessary to restore turbine sites. Following removal of all above- and below-ground structures to 24 inches below grade, the individual disturbed areas will be re-graded to be consistent with surrounding areas and reseeded to promote re-vegetation. The cost for disposal for any materials that are not scrapped is considered incidental, unless otherwise noted.



Decommissioning Budget

The decommissioning process has been divided into nine (9) general work items. Quantities and unit prices for these individual work items are presented and discussed in detail in the following paragraphs.

- 1. Project Management (contractor costs, equipment, etc.)
- 2. Site Work/Civil (site reclamation)
- 3. Wind Turbine Foundations
- 4. Wind Turbine Generators and MET Towers
- 5. Electrical Collection System
- 6. Electrical Substation
- 7. Electrical GenLead
- 8. Dynamic Reactive Device Facility
- 9. Operation & Maintenance Building

1. Project Management

1.1 Mobilization

A. Mobilization and demobilization to setup and breakdown the crane and assist crane estimated to cost a flat fee of \$95,000 per one-way trip, for a total of: \$ 190,000.00	
B. In addition, it is estimated that the cranes will be re-mobilized an additional three (3) times at an estimated cost of \$60,000 per move to reach all of the turbine sites for a total of: \$ 180,000.00	
C. Mobilization and demobilization of ancillary equipment (i.e. bull dozers, backhoes, etc.) is estimated to be: \$ 50,000.00	
Total estimate for mobilization is:	\$ 420,000.00
1.2 Project Oversight. Oversight of the decommissioning is estimated at:	\$ 403,000.00
1.3 <u>Incidentals / Erosion and Sedimentation Control Measures</u> . A budget of approximately 5% of the decommissioning scope is recommended for project incidentals, including erosion and sedimentation control measures:	\$ 331,500.00
1.4 <u>Contingency</u> . A contingency of approximately 10% of the decommissioning scope is recommended to cover unknowns:	\$ 663,000.00
Total opinion of probable costs for Project Management:	\$ 1,817,500.00

2. Site Work/Civil (Site Reclamation)

2.1 Re-grading of turbine sites.

A. The decommissioning plan includes restoring each of the turbine sites. We are assuming that all excavated areas will be brought up to grade and sloped to drain with suitable fill material generated from the re-grading of the turbine site or from off-site sources. The estimated cost includes additional fill, topsoil or other organic matter to support growth, seed, and mulch.

Approximate disturbed area: 12,350 SF/turbine site

Estimated cost per 1000 SF (1 MSF): \$ 330.00 /MSF

Total estimated re-grading material cost for all 62 turbine sites: \$ 252,700.00

B. This re-grading and restoration work is estimated to take a dozer and operator approximately eight (8) hours to complete at each turbine site.

Labor & equipment rate:	\$	200.00 /h	our	_	
Total re-grading and restoration work for al	l 62 turbine sites:	\$	99,200.00	=	
Total estimate for re-grading turbine sites is:				\$	351,900.00



2.2 <u>Road Maintenance</u>. Dust control, road maintenance, and post construction road repairs is difficult to estimate. A budget of approximately 1% of the \$10 million estimated for road construction is recommended to address these items.

\$ 100,000.00

2.3 Road Widening for Crane Access. All crane paths narrowed at the end of construction will need to be re-widened for decommissioning access. This work is anticipated to include windrowing the vegetation off the former crane roadbed and regrading the current roadbed with grader/roller to smooth out the full width of the crane road. Upon completion of decommissioning, the windrowed vegetation will be regraded to re-narrow the crane roads and reseeded.

Α.	Approximate windrowed area:	1,277 MSF	
	Estimated labor & equipment rate per MSF:	\$ 117.00	
	Total estimated cost to windrow the material:	\$	149,409.00
В	Approximate re-graded area (at 38ft wide):	3,146 MSF	
	Estimated labor & equipment rate per MSF:	\$ 117.00	
	Total estimated cost to regrade the road:	\$	368,082.00
С	Approximate re-narrowed area:	1,277 MSF	
	Estimated labor & equipment rate per MSF:	\$ 147.00	
	Total estimated cost to re-narrow the road:	\$	187,719.00

Total estimate for re-widening the crane roads is:

\$ 705,210.00

The total opinion of probable costs for Site Work/Civil:

\$ 1,157,110.00

3. Wind Turbine Foundations

3.1 <u>Removal of WTG foundation to 2 FT below grade</u>. Removal of the turbine foundations is assumed to require a hydraulic excavator equipped with hydraulic ram (hoe-ram), an additional excavator with bucket for loading, and various dozers and loaders.

Total estimated labor & equipment cost:	\$	5,500.00 /site	
Total estimate for WTG foundation removal lab	or for all 6	2 turbine sites:	\$ 341,000.00

3.2 Transportation of rubble and disposal. Concrete demolition rubble generated at each turbine site is estimated to be approximately 55 cubic yards (based on a removal depth of 2 feet below grade). As it is assumed the steel rebar will be separated from the concrete debris, the rubble essentially becomes an inert material. Therefore, we have assumed that the concrete rubble generated will not be transported offsite but be used onsite as fill at toes of slopes, for road base or topping material, or at other locations in need of fill as desired by the property owner. Costs to transport the foundation rubble within the project boundaries, in comparison to other decommissioning costs, are assumed to be negligible. In the unlikely event the material cannot be used on-site, the material will be transported for offsite use. Costs to transport the foundation rubble to disposal are based on an estimated requirement of six (6) dump truck trips for each turbine site and transported to a location within 2 hours (one-way) at an equipment and labor rate of \$100/hr.

Total estimated labor & equipment cost:	\$	400.00 /dump truck trip	
Total estimate for WTG foundation transportation	ion costs fo	r all 62 turbine sites:	\$ 148,800.00
The total opinion of probable costs for removal of V	WTG Foun	dations:	\$ 489,800.00

4. Wind Turbine Generators and MET Towers

4.1 Disassembly of turbine generators:

A. Disassembly costs for the WTGs are based on the assumption that it will take a 10-man crew 20 hours to disassemble each tower and turbine, which is roughly equivalent to the labor effort required for tower and turbine assembly.



	Estimated labor rate:	\$	25.00	/man	-hour		
	Total estimate for WTG disassembly for a	all 62 turbines:		\$	310,000.00		
В.	Based on an assumption that the two crars the crane rental is estimated to be 31 week	*	,			2) tur	bines a week
	Estimated rental costs for two cranes:	\$	40,000.00	/weel	k		
	Total estimate for WTG disassembly equi	pment for all 62	turbines:	<i>a</i>	1 220 000 00		
				\$	1,320,000.00		
C.	Additionally, once the towers and turbines pieces in preparation for transportation to man crew 20 hours to do this work per tu	scrap, recycle, o	•				_
	Estimated labor rate:	\$	15.00	/man	-hour		
	Total estimate for WTG dismantling for a	ıll 62 turbines:		\$	93,000.00	1	
Th	ne total estimate for WTG disassembly is:					\$	1,723,000.0
ve	mponents to facilities for scrap, recycling o hicles per turbine site (note: transport of ne hicles).	-			-		
	otal estimated labor & equipment cost:	\$		/tran:	sport trip		
To	otal estimate for turbine component transpo	ort for all 62 turb	ine sites:			\$	868,000.0
SC	acelle housing, blade, and other component rappable components are based on an estimations).				_		
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B. We have assumed that the concrete rubble generated from the foundations (while separating rebar as necessary) will not be transported offsite but be used onsite as fill at toes of slopes, for road base or topping material, or at other locations in need of fill as desired by the property owner. In the unlikely event the material cannot be used

158,800.00

36,500.00



on-site, the material will be transported for offsite use. Costs to transport the foundation rubble to disposal are based on six (6) cubic yards of rubble for an estimated one (1) dump truck trip per MET tower site and transported to a location within 2 hours (one-way) at an equipment and labor rate of \$100/hr.

Total estimated labor & equip. cost:	\$	400.00	/dump	truck trip	
Total estimate for MET foundation transport	rtation cost f	for five (5)			
towers:			\$	2,000.00	
Total estimate for MET tower disposal for five ((5) towers is:				\$ 6,600.00
The total opinion of probable costs for WTGs and	MET Towe	er removal:			\$ 3,085,400.00

5. Electrical Collection System

Note that as the direct-buried underground collector is buried deeper that 2 ft, it will not be removed but be abandoned in place. Also note that transformers are internal to each WTG and their removal cost is included in the disassembly costs above.

5.1 Disassembly of overhead collector lines and associated components:

A. Disassembly and spooling costs for the overhead collector lines and associated components are based on the assumption that the labor effort required will be a 3-man crew working for four (4) hours per 1,000 feet of overhead wire.

Estimated total length of overhead lines:		93,900 feet	
Estimated labor rate:	\$	35.00 /man-	hour
Total estimate for overhead collector line	s disassembly:	\$	39,500.00

B. Equipment rates are estimated at the following rate for approximately 47 days.

Estimated equipment rates:	\$	1,700.00	/day	
Total estimate for overhead collector disa	ssembly equipme	nt:	\$	79,900.00

C. Pole removal and filling of remaining hole, based on the following approximate quantities:

Amount of poles:		246 each	1
Removal labor and equipment costs:	\$	160.00 /pole	
Total estimate for overhead collector pole	removal:	\$	39,400.00

Total for disassembly of overhead collector lines:

5.2 Transportation of collector lines and associated components

A. The cost to transport the collector line and associated components to facilities for scrap, recycling or disposal is based on the number of spools required per collector line sizes and lengths for the project, and a capacity of eight (8) spools per truck.

Estimated spools of collector line:	150 each
Estimated labor & equipment cost:	\$ 1,400.00 /truck trip
Total estimate for collector lines disassembly:	\$ 26,600.00

B. Pole removal will be transported at a rate of 30 poles per logging truck. It is assumed that poles will be sold or given away.

Amount of poles:		246 each	
Estimated labor & equipment costs:	\$	1,100.00 /truc	k trip
Total estimate for overhead collector pole:	removal:	\$	9,900.00

Total for transportation of collector line and associated components:

The total opinion of probable costs for Electrical Collection System removal: \$ 195,300.00

6. Electrical Substation

The costs for removing the substation is difficult to assess. This section gives a general description of the assumptions made for the demolition costs of this item.



6.1 Disassembly of substation and associated components.

A. Disassembly costs for the substation is based on the assumption that the labor effort required will be a 5-man crew working for approximately four (4) weeks.

Estimated labor rate: \$ 35.00 /man-hour

Total estimate for substation disassembly: \$ 28,000.00

B. The disassembly will require a variety of construction equipment; it is difficult to estimate specific equipment requirements. In lieu of specific equipment rates, our opinion of probable cost includes a weekly rental equipment allowance for the assumed four (4) weeks.

Estimated equipment rental rate: \$ 33,000.00 /week

Total estimate for substation disassembly: \$ 132,000.00

Total for disassembly of substation and associated components: \$ 160,000.00

6.2 <u>Transport substation components to disposal/reclamation site</u>. Costs to transport the substation components to facilities for scrap, recycling or disposal are based on an estimated one (1) truck trip per day for four (4) weeks totaling 20 truck trips from the substation site.

Estimated labor & equipment costs: \$ 1,100.00 /truck trip

Total for transport of substation components to disposal/reclamation site: \$ 22,000.00

6.3 Removal and transportation/disposal of substation foundations.

A. Removal of the substation foundations to a depth of two (2) feet below grade will require various forms of hydraulic equipment and various dozers and loaders. Estimated foundation rubble volume is based on the foundation dimensions of these facilities.

Estimated foundation rubble volume: 255 cubic yards
Estimated labor & equipment costs: \$ 100.00 / cubic yard

Total estimate for substation foundation removal: \$ 25,500.00

B. We have assumed that the concrete rubble generated from the foundations (while separating rebar as necessary) will not be transported offsite but be used onsite as fill at toes of slopes, for road base or topping material, or at other locations in need of fill as desired by the property owner. In the unlikely event the material cannot be used on-site, the material will be transported for offsite use. Costs to transport the foundation rubble to disposal are based on 255 cubic yards of rubble, and 10 cubic yards per dump truck trip.

Estimated labor & equipment costs:	\$	400.00	/dump	truck trip	
Total estimate for substation foundation tra	ansportation:		\$	10,400.00	
Total for removal and transportation/disposal	of substation fou	ndations:			\$ 35,900.00

6.4 Re-grading of substation site:

A. For the restoration of the substation site, we are assuming that all excavated areas will be brought up to grade and sloped to drain with suitable fill material generated from the re-grading of the site or from off-site sources. The estimated cost includes additional fill, topsoil or other organic matter to support growth, seed, and mulch.

Approximate disturbed area:		120,000 SF/Sub	station Site
Estimated cost per 1000 SF (1 MSF):	\$	330.00 /MSF	
Total estimated re-grading material cost for	r substation:	\$	39.600.00

B. This re-grading and restoration work is estimated to take a dozer and operator approximately seven (7) days to



complete.

Labor & equipment rate:	\$	200.00 /hour			
Total re-grading and restoration work for s	substation:	\$	11,200.00	•	
Total estimate for re-grading substation site is:				\$	50,800.00
Total opinion of probable costs for Electrical Sub	ostation remov	al:		\$	268,700.00

7. Electrical GenLead System

7.1 Disassembly of overhead GenLead lines and associated components:

A. Disassembly and spooling costs for the overhead GenLead lines and associated components are based on the assumption that the labor effort required will be a 3-man crew working for four (4) hours per 1,000 feet of overhead wire.

Estimated total length of overhead lines:		90,820 feet	
Estimated labor rate:	\$	35.00 /man-ho	our
Total estimate for overhead GenLead disas	sembly:	\$	38,700.00

B. Equipment rates are estimated at the following rate for approximately 46 days.

1 1	O	11		-	
Estimated equipment rates:	\$	1,7	00.00	/day	
Total estimate for overhead GenLead disa	ssembly equi	pment:		\$	78,200.00

C. Pole removal and filling of remaining hole, based on the following approximate quantities:

Amount of poles:		285 each	
Removal labor and equipment costs:	\$	160.00 /pole	
Total estimate for overhead GenLead po	le removal:	\$	45,600.00

Total for disassembly of overhead GenLead lines: \$ 162,500.00

7.2 Transportation of GenLead lines and associated components

A. The cost to transport the GenLead lines and associated components to facilities for scrap, recycling or disposal is based on the number of spools required per GenLead line sizes and lengths for the project, and a capacity of eight (8) spools per truck.

Estimated spools of GenLead line:	153 each	
Estimated labor & equipment cost:	\$ 1,400.00 /truck trip	
Total estimate for GenLead lines disassembly:	\$ 28,000.00	

B. Pole removal will be transported at a rate of 30 poles per logging truck. It is assumed that poles will be sold or given away.

Amount of poles:	285 each			
Estimated labor & equipment costs:	\$	1,100.00	/trucl	k trip
Total estimate for overhead GenLead pol	e removal:		\$	11,000.00

Total for transportation of GenLead line and associated components: \$ 39,000.00

Total opinion of probable costs for Electrical GenLead System removal: \$ 201,500.00

8. Dynamic Reactive Device Facility

8.1 Building removal

Demolition of the 12,000 square foot building, including labor, equipment, and transportation to facilities for scrap, recycling, or disposal is based on a removal rate of 20,100 cubic feet per day over 18 days at a daily cost of \$7,600:

\$136,800.00

8.2 Disassembly of exterior associated components.

A. Disassembly costs for the exterior associated components is based on the assumption that the labor effort



required will be a 5-man crew working for seven (7) days.

Estimated labor rate: \$ 35.00 /man-hour

Total estimate for exterior component disassembly: \$ 9,800.00

B. The disassembly will require a variety of construction equipment; it is difficult to estimate specific equipment requirements. In lieu of specific equipment rates, our opinion of probable cost includes a weekly rental equipment allowance for the assumed seven (7) days.

Estimated equipment rental rate: \$ 33,000.00 /week

Total estimate for equipment rental: \$ 46,200.00

Total for disassembly of exterior associated components:

\$ 56,000.00

8.3 Removal and transportation/disposal of Facility foundations.

A. Removal of the Facility building and associated components foundations to a depth of two (2) feet below grade will require various forms of hydraulic equipment and various dozers and loaders. Estimated foundation rubble volume is based on the approximated foundation dimensions of these facilities.

Estimated foundation rubble volume: 860 cubic yards

Estimated labor & equipment costs: \$ 100.00 /cubic yard

Total estimate for Facility foundation removal: \$ 86,000.00

B. We have assumed that the concrete rubble generated from the foundations (while separating rebar as necessary) will not be transported offsite but be used onsite as fill at toes of slopes, for road base or topping material, or at other locations in need of fill as desired by the property owner. In the unlikely event the material cannot be used on-site, the material will be transported for offsite use. Costs to transport the foundation rubble to disposal are based on 10 cubic yards per dump truck trip.

Estimated foundation rubble volume: 860 cubic yards
Estimated labor & equipment costs: \$ 400.00 /dump truck trip

Total estimate for Facility foundation transportation: \$ 34,400.00

Total for removal and transportation/disposal of Facility foundation:

\$ 120,400.00

8.4 Re-grading of Facility site:

A. For the restoration of the Facility site, we are assuming that all excavated areas will be brought up to grade and sloped to drain with suitable fill material. The estimated cost includes additional fill, topsoil or other organic matter to support growth, seed, and mulch.

Approximate disturbed area: 50,000 SF

Estimated cost per 1000 SF (1 MSF): \$ 330.00 /MSF

Total estimated re-grading cost for Facility Building: \$ 16,500.00

B. This re-grading and restoration work is estimated to take a dozer and operator approximately three (3) days to complete.

Labor & equipment rate:	\$	200.00 /hour			
Total re-grading and restoration work for Fa	acility building:	\$	4,800.00	='	
Total estimate for re-grading Facility site is:				\$	21,300.00

Total opinion of probable costs for Dynamic Reactive Device Facility removal:

\$334,500.00

9. Operation & Maintenance Building

9.1 Building removal

Demolition of an approx. 5,916 square foot building, including labor, equipment, and transportation to facilities for scrap, recycling, or disposal is based on a removal rate of 20,100 cubic feet per day over 6 days at a daily cost of \$7,600:

\$45,600.00



9.2 Removal and transportation/disposal of building foundations.

A. Removal of the O&M building and associated components foundations to a depth of two (2) feet below grade will require various forms of hydraulic equipment and various dozers and loaders. Estimated foundation rubble volume is based on the approximated foundation dimensions of this facility.

Estimated foundation rubble volume:	150	cubi	ic yards
Estimated labor & equipment costs:	\$ 100.00	/cul	bic yard
Total estimate for Facility foundation removal:		\$	15,000.00

B. We have assumed that the concrete rubble generated from the foundations (while separating rebar as necessary) will not be transported offsite but be used onsite as fill at toes of slopes, for road base or topping material, or at other locations in need of fill as desired by the property owner. In the unlikely event the material cannot be used on-site, the material will be transported for offsite use. Costs to transport the foundation rubble to disposal are based on 10 cubic yards per dump truck trip.

Estimated foundation rubble volume:	150 cubic yards					
Estimated labor & equipment costs:	\$	400.00	/dump	truck trip		
Total estimate for Facility foundation transp	portation:		\$	6,000.00		
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Total for removal and transportation/disposal of Facility foundation:

\$ 21,000.00

9.3 Re-grading of Facility site:

A. For the restoration of the Facility site, we are assuming that all excavated areas will be brought up to grade and sloped to drain with suitable fill material. The estimated cost includes additional fill, topsoil or other organic matter to support growth, seed, and mulch.

Approximate disturbed area:		18,000 SF	
Estimated cost per 1000 SF (1 MSF):	\$	330.00 /MSF	
Total estimated re-grading cost for Facility	Building:	\$	6,000.00

B. This re-grading and restoration work is estimated to take a dozer and operator approximately one (1) day to complete.

Labor & equipment rate:	\$	200.00 /hour		
Total re-grading and restoration work for I	Facility building:	\$	1,600.00	
Total estimate for re-grading Facility site is:				\$ 7,600.00

Total opinion of probable costs for Operation & Maintenance Building removal:

\$ 74,200.00

Disassembly & Removal Summary

The total opinion of probable disassembly and removal costs from summing the items above:

\$ 7,624,010.00

Scrap / Salvage Value

For the purposes of this decommissioning plan, we have assumed that transformers would be sold for reuse and all other scrapable metal materials from the project decommissioning would be sold as scrap to a recycling yard in the Bangor, Maine area. The presumed scrap / salvage values are based on the following conservative estimates:

1. <u>Presumed scrap value of WTGs</u>. In estimating the scrap value of the WTGs, the following component weight estimates were used (all weights are in pounds). No scrap value was assumed for the blades or nacelle shell.

Base:	138,000	Nacelle	142,630
Lower Mid:	112,400	Rotor	76,060
Upper Mid:	122,400		
Top:	122,400		

Total estimated weight for each WTG:

713,890 lbs



Price for #1 steel scrap at a Bangor, Maine area metal recycling center: #1 steel \$ 230.00 /ton [(713,890 lbs / 2,000 lbs per ton) x \$230 per ton x 62 turbines = approx. \$5,090,100)

Total opinion of presumed scrap value for all 62 WTGs:

\$ 5,090,100.00

2. Presumed value of the internal transformers. The cost of an internal transformer is assumed to be 85% of the cost of an equivalent external pad mounted transformer. Based on an estimated cost of \$70,000 for external transformers, this equates to about \$59,500. Based on our research, typical transformers have a life expectancy of 50 years. Therefore, at 20 years a transformer could have a value of approximately 50% of its original cost. However, to be conservative, we have estimated the value of the internal transformers at 10% of the original transformer cost.:

Estimated original cost for internal transfomers: \$ 59,500.00 each Estimated value (10%): \$ 5,950.00 each

Total opinion of presumed value for all 62 internal transformers:

\$ 368,900.00

3. Presumed scrap value of the MET towers. In estimating the scrap value of the MET towers, the following component weight and steel scrap values were used:

MET tower component weight: 6,000 lbs
Average steel scrap value: \$ 230.00 /ton

Total opinion of presumed scrap value of all five (5) MET towers:

\$ 3,500.00

4. Overhead Collector wiring scrap value. Quantities of overhead wire and wire sizes and lengths are based on electrical drawings prepared by SGC and used as a basis for estimated scrappable metal amounts. Overhead wiring consists of aluminum (steel reinforced) conductors.

Estimated linear feet of wiring: 281,685 ft
Estimated weight of scrappable aluminum: 246,155 lbs

Price for aluminum scrap at a Bangor area metal

recycling center: \$ 500.00 /ton

Total opinion of presumed scrap value of the overhead collector wiring:

\$ 61,600.00

5. <u>Presumed scrap value of Substation</u>. Based on our research, typical substation components have a life expectancy of 50 years. Therefore, at 20 years the substation could have a value of approximately 50% of its original cost. However, to be very conservative, we have estimated the substation scrap value at 2% of the total original cost:

Original substation construction estimate, less the

transformer: \$ 8,500,000.00 Estimated substation scrap value (2%): \$ 170,000.00

Total opinion of presumed scrap value of the substation:

\$ 170,000.00

6. Presumed value of Substation Transformer(s). Based on our research, typical transformers have a life expectancy of 50 years. Therefore, at 20 years a transformer could have a value of approximately 50% of its original cost. However, to be conservative, we have estimated the value of the substation transformer(s) at 10% of the original transformer cost:

Original substation transformer construction cost: \$ 2,500,000.00 Estimated value (10%): \$ 250,000.00

Total opinion of presumed value of the substation transformer(s): \$ 250,000.00



7. Overhead GenLead wiring scrap value. Quantities of overhead wire and wire sizes and lengths are based on electrical drawings prepared by SGC and used as a basis for estimated scrappable metal amounts. Overhead wiring consists of aluminum (steel reinforced) conductors.

Estimated linear feet of wiring: 272,460 ft
Estimated weight of scrappable aluminum: 297,799 lbs

Price for aluminum scrap at a Bangor area metal

recycling center: \$ 500.00 /ton

Total opinion of presumed scrap value of the overhead GenLead wiring: \$ 74,500.00

Scrap / Salvage Value Summary

The total opinion of probable scrap / salvage value from summing the items above: \$ 6,018,600.00

Decommissioning Summary

The total opinion of probable disassembly and removal costs is: \$ 7,624,010.00

The total opinion of probable scrap / salvage value for the project is: \$ 6,018,600.00

The net estimated opinion of probable cost for decommissioning is: \$ 1,605,410.00

Please do not hesitate to contact us with any questions regarding the information contained in this report. We appreciate the opportunity to work with you on this project.

Sincerely,

James W. Sewall Company

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Project Manager

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