Project: UIUC South Campus Wind Turbine Project		Classifi	cation:	n: ELECTRICAL UTILITY ESTIMATE						Job Number:	05-3974	
Location: Champaign/Urbana		Engineer:		ITG - Henneman Engine		ering, Inc.				Date:	12/14/2007	
Take Off by: Tracy Wilson										Checked by:	KFM	
	Means Line			Material		Labor		Equipment		Subcontract		Line Item
Description	Number	Quantity	Unit	Cost	Total	Cost	Total	Cost	Total	Cost	Total	Cost
47137 11												
15kV cables		500	LF	\$23.72	11.960	\$5.61	\$2,805.00					\$14665.00
2/0 triplexed #2 triplexed		4000	LF	\$25.72	11,860 64,600	\$5.01						\$14,665.00 \$84,760.00
Cable splices	16120-220-0210	4000	EA	\$10.15	112	\$105.00	\$105.00					\$217.00
Cable terminations	16120-220-0210	12	EA	\$174.00	2,088	\$60.00	\$720.00					\$2,808.00
	10120-240-1400	12	EA	\$174.00	2,088	\$00.00	\$720.00					\$2,808.00
Fiber Optic Cable												
Single Mode fiber optic cable 24 cond		7200	ft	\$0.60	4,320	\$2.00	\$14,400.00					\$18,720.00
Fiber terminations		96	ft	\$17.00	1,632	\$14.00	\$1,344.00					\$2,976.00
Trenching and backfilling		6700	ft			\$1.50	\$10,050.00	\$0.50	\$3,350.00			\$13,400.00
Naturali Equipment		1				\$2,000,00	\$2,000,00					\$2,000,00
Network Equipment		1	ea	¢1.000.00	1.000	\$3,000.00	\$3,000.00					\$3,000.00
19" rack		1	ea	\$1,000.00	1,000							\$1,000.00
Patch panel			ea	\$1,000.00	1,000							\$1,000.00
Switch		1	ea	\$2,500.00	2,500							\$2,500.00
Building												
12' x 20' metal bldg, including excavation & concrete		1	LOT	\$12,000.00	12,000	\$7,800.00	\$7,800.00					\$19,800.00
Switchgear, S & C metal enclosed SG, 13.8kV												
non-fused incoming switch, 3 fused feeder switches		1	ea	\$39,000.00	\$39,000.00	\$4,375.00	\$4,375.00	\$1,655.00	\$1,655.00			\$45,030.00
Fixtures, lamps, conduit/wiring												
Industrial fluorescent	16510-440-3200	4	ea	\$74.50	\$298.00	\$67.00	\$268.00					\$566.00
Wallpack	16520-300-1180	5	ea	\$255.00	\$1,275.00	\$84.00	\$420.00					\$1,695.00
Wiring Devices w/ conduit/wiring												
Receptacles	D5020-125-0520	4	ea	\$34.50	\$138.00	\$165.00	\$660.00					\$798.00
GFCI Receptacles	D5020-125-0600	1	ea	\$65.50	\$65.50	\$171.00	\$171.00					\$236.50
Switches	D5020-125-0760	2	ea	\$41.00	\$82.00	\$174.00	\$348.00					\$430.00
Branch panelboards - 120/240V												
Panel - 100A, 12 ctk	16440-500-0300	1	ea	\$216.00	\$216.00	\$280.00	\$280.00					\$496.00
Grounding												
4/0 KCMIL wiring	16060-800-1000	130	lf	\$1.84	\$239.20	\$1.18	\$153.40					\$392.60
ground rods	16060-800-0090	8	ea	\$22.00	\$176.00	\$73.00	\$584.00					\$760.00
exothermic weld	16060-800-2730	12	ea	\$9.15	\$109.80	\$48.00	\$576.00					\$685.80
Oil-filled pad mount Transformer												
2000 kVA 13.8KV PRI to 600V Y SEC.		1	ea	\$49,786.00	\$49,786.00	\$4,200.00	\$4,200.00	\$1,000.00	\$1,000.00			\$54,986.00

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Take Off by: Tracy Wilson										Checked by:	KFM	
	Means Line			Mate	erial	Lab	or	Equipn	nent	Subcon	tract	Line Item
Description	Number	Quantity	Unit	Cost	Total	Cost	Total	Cost	Total	Cost	Total	Cost
Concrete pad, excavation & concrete		1	ea	\$1,600.00	\$1,600.00	\$1,200.00	\$1,200.00					\$2,800.00
Mechanical												
3/4 ton wall mount HVAC		1	lot	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00					\$3,000.00
Subtotals					196,098		74,619		6,005			\$276,722
Materials Sales Tax												
Handling Overhead & Profit Mark-up												
Material		15.00%			29,415				901			
Labor		15.00%					11,193					
Total					225,512		85,812		6,906			\$318,230
City Modifier from Means												
Material Modifier		97.00%			218,747				6,699			
Labor Modifier		101.10%					86,756					
Subtotal					218,747		86,756		6,699			\$312,202
Contingency		10.00%										\$31,220
Engineering		12.00%										\$41,211
Total												\$384,632