

Meteorological Tower Site Commissioning Form

Project and Site Information

Site Number		Project Number	
Site Name	Longford	Project Name	USVI - St. Croix
Site Address	Southside Road, Christiansted, St. Croix 00820		
UTM Zone	20Q	Time Zone	AST
Easting	320431	Logger time	
Northing	1958686	Clock/Local time	
Latitude	N17.707990	Elevation	92 ft.
Longitude	W64.693280		
Datum	WGS84		
Magnetic Declination	13°W	Prevailing Winds	
Site access notes	East on Southside Road(Rte 62) to gate, ranch road south from gate appr. 3/4 mile to tower.		
Soil Type	Loam, clay.		

H&H Wind Energy Team

H&H Wind Team Leader	H&H Wind Team Members
CLH	JW, RS

Commissioning

Commission Date	12/9/2012	Removal Date	
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Instrumentation

Channel # and Name	Type	Manufacturer	Model	Serial Number	Primary / Redundant	Sensor Height	Boom Orientation TN	Boom Orientation MAG	Boom Length	Stub Mount Height	D-band Orientation
P1 (LLAC4)	Anemometer	NRG	#40C	205509	PRI	58m	45°	58°	2.4m	0.381m	NA
Notes:											
P2 (LLAC4)	Anemometer	NRG	#40C	205500	RED	58m	135°	148°	2.4m	0.381m	NA
Notes:											
P3 (LLAC4)	Anemometer	NRG	#40C	207517	PRI	47.5m	45°	58°	2.4m	0.381m	NA
Notes:											
P4 (LLAC4)	Anemometer	NRG	#40C	205501	RED	47.5m	135°	148°	2.4m	0.381m	NA
Notes:											
P1	Anemometer	NRG	#40C	205510	PRI	32m	45°	58°	2.4m	0.381m	NA
Notes:											
P2	Anemometer	NRG	#40C	205511	RED	32m	135°	148°	2.4m	0.381m	NA
Notes:											
SE15	Wind vane	NRG	200P	NA	NA	53m	45°	58°	2.4m	0.381m	45°
Notes:											
SE16	Wind vane	NRG	200P	NA	NA	34m	45°	58°	2.4m	0.381m	45°
Notes:											
SE1	Temperature	NRG	110S	NA	NA	2m	0°	13°	NA	NA	NA
Notes:											
SE3	Barometric pressure	NRG	BP-20	19315	NA	2m	0°	13°	NA	NA	NA
Notes:											
DIFF3L/3H		Li-Cor	Pyranometer	75520	NA	1m	NA	NA	NA	NA	NA
Notes:											
Notes:											
Comments											

Instrument Calibrations

Channel # and Name	Serial Number	Calibration Date	Calibration By	Slope	Offset	Notes
P1 (LLAC4)	205509	5/11/2012	Otech	0.767	0.38	
P2 (LLAC4)	205500	5/11/2012	Otech	0.768	0.37	
P3 (LLAC4)	207517	6/20/2012	Otech	0.769	0.37	
P4 (LLAC4)	205501	5/11/2012	Otech	0.77	0.35	
P1	205510	5/11/2012	Otech	0.768	0.36	
P2	205511	5/11/2012	Otech	0.768	0.35	

Comments

Power System

Type	CSI typical		
Capacity			

Tower Specifications

Type	NRG XHD	Height	60m
Diameter / Face Width	10"	Bearing (from top of tower)	270°

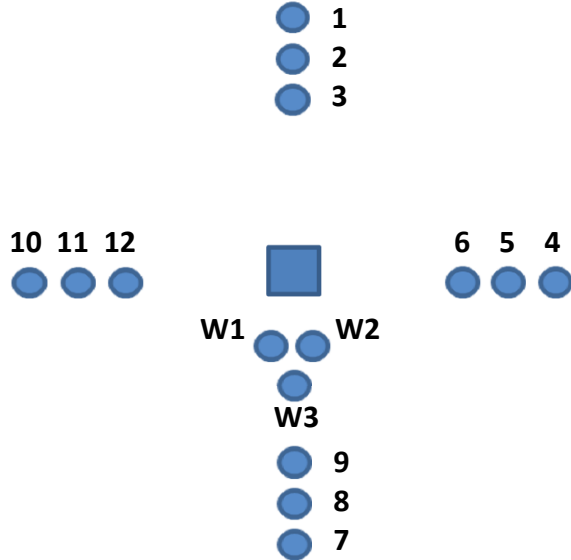
Tower Lighting / Marking

Lighting System	NONE	Guy guards	YES (x24)
Marker Balls	NONE	Anchor markers	Painted
Fencing	YES - Barb wire	Other	

Anchor System

No.	Type	Notes
1	O	Rock Anchor secured to 2x12x8' Deadman
2	O	Rock Anchor secured to 2x12x8' Deadman
3	O	Rock Anchor secured to 2x12x8' Deadman
4	O	Rock Anchor secured to 2x12x8' Deadman
5	O	Rock Anchor secured to 2x12x8' Deadman
6	O	Rock Anchor secured to 2x12x8' Deadman
7	O	Rock Anchor secured to 2x12x8' Deadman
8	O	Rock Anchor secured to 2x12x8' Deadman
9	O	Rock Anchor secured to 2x12x8' Deadman
10	O	Rock Anchor secured to 2x12x8' Deadman
11	O	Rock Anchor secured to 2x12x8' Deadman
12	O	Rock Anchor secured to 2x12x8' Deadman
W1	O	Rock Anchor secured to 2x12x8' Deadman
W2	O	Rock Anchor secured to 2x12x8' Deadman
W3	O	Rock Anchor secured to 2x12x8' Deadman

Legend: S6= 6" Screw-In S8 = 8" Screw-in A=Arrowhead
R=Rebar O=Other (see notes) NA=Not required



Installation Notes

Photographs

- x Sensor heights (+5 photos)
- x Site panorama taken from tower base (8 photos)
- x Each installed and dressed guy anchor (12-16 photos)
- x Ground rods and ground wire connection (4 photos)
- x Installed sensors as viewed from tower base (4 photos)
- x Installed complete tower (2 photos)
- x Logger and modem serial numbers (2 photos)
- x Logger enclosure, wiring and PV panels (2-4 photos)
- x Real-time channel readings (+10 photos)