

SGES TALL TOWER SITE COMMISSIONING FORM



I. Site Information

| | | | |
|--|---|----------------------|---------------------|
| Site Number | 0707 | Project Number | 2003-03 |
| Site Name | Racine | Project Name | FOE WIND MONITORING |
| Site Location | Old Reef Light House, Racine WI | | |
| Latitude | N 42.72833 | Time Zone | CST |
| Longitude | W87.73667 | Magnetic Declination | 3 west |
| Datum | WGS84 | Prevailing Winds | |
| Elevation | 584ft | | |
| Installation Team Leader | Blecker | Installation Crew | Novash |
| Obstruction(s) to the tower/air flow and distances | None. Site located 2 miles east of downtown Racine. Sensors mounted approx 10 feet above top of light house "crow's nest" | | |
| Site Description (Topography) | Open water – Lake Michigan | | |
| Soil Type | | | |

II. Commissioning

| | | | |
|-----------------|---------|--------------|--|
| Commission Date | 7/31/05 | Removal Date | |
|-----------------|---------|--------------|--|

III. Host Information

| | | | |
|----------------|------|-----------------|--|
| Host | USCG | Contact Address | |
| Contact Person | | | |
| Phone Number | | | |
| Fax Number | | | |
| Email Address | | | |

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IV. Instrumentation

A. Anemometers (NRG Maximum #40)

| | Sensor 1 | Sensor 2 | Sensor 3 | Sensor 4 | Sensor 5 | Sensor 6 |
|---|--|------------------|------------------|------------------|----------|----------|
| • Serial Number | | | | | | |
| • Monitoring Height | 56' | 56' | 56' | 56' | | |
| • Primary / Redundant | P | P | P | P | | |
| • Mounting Orientation TRUE North | 45 northeast | 225 southwest | 135 southeast | 315 northwest | | |
| • Boom Length | 13" | 13" | 13" | 13" | | |
| • Mount Above Boom | | | | | | |
| • Calibrated by: | | | | | | |
| – Calibration Date | | | | | | |
| – Slope (mph/Hz) | | | | | | |
| – Offset (mph) | | | | | | |
| • Logger Terminal # | 1 (yellow) | 2 (blue) | 3 (white) | 4 (red) | | |
| Comments: | Each sensor mounted on 13" stub mast attached to 113" 1" dia vertical boom. Height above deck = 113". Height above Nav aid = 6 feet. | | | | | |

B. Wind Vanes (NRG 200P)

| | Sensor 1 | Sensor 2 |
|---|-------------|-------------|
| • Monitoring Height | Same as #40 | Same as #40 |
| • Mounting Orientation TRUE North | Northeast | southwest |
| • Boom Length | | |
| • Mount Above Boom | | |
| • Deadband Orientation (°) | 0 | 0 |
| • Logger Terminal # | 7 yellow | 8 blue |
| Comments: | | |

C. Temperature Sensor (NRG 110S)

| | | | |
|------------------------|-----------|-----------------------|---------------|
| • Monitoring Height | 45' | • Slope / Offset (°F) | 0.2441/-123.5 |
| • Mounting Orientation | Northwest | • Logger Terminal # | 12 |
| Comments: | | | |

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D. NRG Data Logger

| | | | |
|-------------------------|---------------------------|--------------------------|----------------------|
| • Logger Type (√) | √ Symphonie Logger | | |
| • Logger Serial Number | 35263033 | • iPack Serial Number | 31210591 |
| • ESN Number | 214-00291169 | • Primary Internet Acct. | Berbee -608-288-2900 |
| • Phone Number | 608-293-1813 | • Password of PIA | |
| • Phone Company | AllTel | • Site Internet Acct. | |
| • SID Number | 01818 | • Password | 0707 |
| • Home Type | B | • Average Interval | 10m |
| • Data Retrieval Method | Auto | • Retrieval Interval | daily |
| • Mounting Orientation | south | • Time Update ISP | |
| Comments: | | | |

E. Tower Type

| | | | |
|------------------|--------------------------------|----------------------|---------|
| • Type | Existing lattice structure | • Height | 60 feet |
| • Tower Diameter | | • Side Boom Diameter | 10ft |
| Comments: | USCG Nav Aid # 20480 See below | | |

| (1) No. | (2) Name and Location | (3) Position | (4) Characteristic | (5) Height | (6) Range | (7) Structure | (8) Remarks |
|------------|--|--------------------------|-----------------------|---------------|--------------|--------------------|---|
| 20480 | - Reef Light Marks east side of reef. | 42 43 39 N 87 44 10 W | Fl W 6s | 50 15 | 11 50 | On skeleton tower. | HORN: 1 blast ev 15s (2s bl). Operates continuously from Apr. to Nov. |

V. Photographic Record

- Take pictures in 8 directions at tower base:
 - ___ North
 - ___ Northeast
 - ___ East
 - ___ Southeast
 - ___ South
 - ___ Southwest
 - ___ West
 - ___ Northwest
- Take at least 3 pictures of tower instrumentation.
- Take pictures of each anchor with guy cables attached
- Take pictures of Obstructions to the Air Flow mentioned on Section I “General Site Information”.