

Appendix C: Agency Coordination and Approvals

Attachment C-1
Federal Aviation Administration



Issued Date: 09/20/2010

Robert Gay
Monarch Wind Power
96 Mendota Ave
Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth1
Location: Kirkwood, IL
Latitude: 40-49-57.29N NAD 83
Longitude: 90-39-36.30W
Heights: 463 feet above ground level (AGL)
1202 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11799-OE.

Signature Control No: 129659857-131078342

(DNE -WT)

Michael Blaich
Specialist



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11800-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth2
 Location: Kirkwood, IL
 Latitude: 40-49-48.18N NAD 83
 Longitude: 90-39-51.38W
 Heights: 463 feet above ground level (AGL)
 1201 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11800-OE.

Signature Control No: 129659898-131078345

(DNE -WT)

Michael Blaich
Specialist



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11801-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth3
 Location: Kirkwood, IL
 Latitude: 40-49-39.15N NAD 83
 Longitude: 90-39-52.38W
 Heights: 463 feet above ground level (AGL)
 1199 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11801-OE.

Signature Control No: 129660062-131078388

(DNE -WT)

Michael Blaich
Specialist



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11802-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth4
 Location: Kirkwood, IL
 Latitude: 40-49-30.12N NAD 83
 Longitude: 90-39-53.33W
 Heights: 463 feet above ground level (AGL)
 1196 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11802-OE.

Signature Control No: 129660255-131078390

(DNE -WT)

Michael Blaich
Specialist



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11803-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth5
 Location: Kirkwood, IL
 Latitude: 40-49-21.10N NAD 83
 Longitude: 90-39-54.38W
 Heights: 463 feet above ground level (AGL)
 1193 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11803-OE.

Signature Control No: 129660314-131078343

(DNE -WT)

Michael Blaich
Specialist



Issued Date: 09/20/2010

Robert Gay
Monarch Wind Power
96 Mendota Ave
Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth6
Location: Monmouth, IL
Latitude: 40-50-22.66N NAD 83
Longitude: 90-38-13.69W
Heights: 463 feet above ground level (AGL)
1226 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

See attachment for additional condition(s) or information.

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before October 20, 2010. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted in triplicate to the Manager, Airspace and Rules Division - Room 423, Federal Aviation Administration, 800 Independence Ave., Washington, D.C. 20591.

This determination becomes final on October 30, 2010 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Office of Airspace and Rules via telephone -- 202-267-8783 - or facsimile 202-267-9328.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

If we can be of further assistance, please contact Michael Blaich, at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11804-OE.

Signature Control No: 129660333-131078776

(DNH -WT)

Sheri Edgett-Baron
Manager, Obstruction Evaluation Service

Attachment(s)
Additional Information
Map(s)

Additional information for ASN 2010-WTE-11804-OE

The proposed construction would be located approximately 5.41 nautical miles (NM) south of the Monmouth Municipal Airport (C66). It would exceed the Obstruction Standards of Title 14, Code of Federal Regulations (14 CFR), Part 77 as follows:

Section 77.23(a)(2) by 23 feet - a height that exceeds 440 feet above ground level within 5.41 NM as applied to C66.

The proposal was not circularized for public comment because current FAA obstruction evaluation policy exempts from circularization those proposals that exceed the above cited obstruction standard. This is provided the proposal does not lie within an airport traffic pattern. This policy does not affect the public's right to petition for review determinations regarding structures, which exceed the subject obstruction standards.

AERONAUTICAL STUDY FOR POSSIBLE INSTRUMENT FLIGHT RULES (IFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed IFR arrival/departure routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR en route routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR minimum flight altitudes.

AERONAUTICAL STUDY FOR POSSIBLE VISUAL FLIGHT RULES (VFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed VFR arrival or departure routes, operations or procedures.
- > The proposed structure would not conflict with airspace required to conduct normal VFR traffic pattern operations at any known public use or military airports.
- > The proposed structure would not penetrate those altitudes normally considered available to airmen for VFR en route flight.
- > The proposed structure will be appropriately obstruction marked and lighted to make it more conspicuous to airmen flying in VFR weather conditions at night.

The cumulative impact of the proposed structure, when combined with other existing structures is not considered significant. Study did not disclose any adverse effect on existing or proposed public-use or military airports or navigational facilities. Nor would the proposal affect the capacity of any known existing or planned public-use or military airport.

Therefore, it is determined that the proposed construction would not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and would not be a hazard to air navigation.





Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11805-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth7
 Location: Kirkwood, IL
 Latitude: 40-49-56.23N NAD 83
 Longitude: 90-39-39.50W
 Heights: 463 feet above ground level (AGL)
 1202 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11805-OE.

Signature Control No: 129660982-131078389

(DNE -WT)

Michael Blaich
Specialist



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11806-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth8
 Location: Kirkwood, IL
 Latitude: 40-49-46.83N NAD 83
 Longitude: 90-39-40.53W
 Heights: 463 feet above ground level (AGL)
 1201 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

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NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

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If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11806-OE.

Signature Control No: 129661645-131078391

(DNE -WT)

Michael Blaich
Specialist



Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth9
 Location: Kirkwood, IL
 Latitude: 40-49-33.45N NAD 83
 Longitude: 90-39-42.11W
 Heights: 463 feet above ground level (AGL)
 1199 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- _____ At least 10 days prior to start of construction (7460-2, Part I)
- X Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11807-OE.

Signature Control No: 129661723-131078346

(DNE -WT)

Michael Blaich
Specialist



Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth10
 Location: Kirkwood, IL
 Latitude: 40-49-55.27N NAD 83
 Longitude: 90-39-07.66W
 Heights: 463 feet above ground level (AGL)
 1209 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

Additional wind turbines or met towers proposed in the future may cause a cumulative effect on the national airspace system. This determination is based, in part, on the foregoing description which includes specific coordinates and heights . Any changes in coordinates will void this determination. Any future construction or alteration requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11808-OE.

Signature Control No: 129661832-131078344

(DNE -WT)

Michael Blaich
Specialist



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-13723-OE
 Prior Study No.
 2010-WTE-11809-OE

Issued Date: 09/24/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth 11
 Location: Monmouth, IL
 Latitude: 40-50-20.15N NAD 83
 Longitude: 90-38-26.84W
 Heights: 463 feet above ground level (AGL)
 1227 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

See attachment for additional condition(s) or information.

This determination expires on 09/24/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before October 24, 2010. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted in triplicate to the Manager, Airspace and Rules Division - Room 423, Federal Aviation Administration, 800 Independence Ave., Washington, D.C. 20591.

This determination becomes final on November 03, 2010 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Office of Airspace and Rules via telephone -- 202-267-8783 - or facsimile 202-267-9328.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

If we can be of further assistance, please contact Michael Blaich, at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-13723-OE.

Signature Control No: 131151753-131267064

Sheri Edgett-Baron
Manager, Obstruction Evaluation Service

(DNH -WT)

Attachment(s)
Additional Information
Map(s)

Additional information for ASN 2010-WTE-13723-OE

The proposed construction would be located approximately 5.46 nautical miles (NM) south of the Monmouth Municipal Airport (C66). It would exceed the Obstruction Standards of Title 14, Code of Federal Regulations (14 CFR), Part 77 as follows:

Section 77.23(a)(2) by 17 feet - a height that exceeds 446 feet above ground level within 5.46 NM as applied to C66.

The proposal was not circularized for public comment because current FAA obstruction evaluation policy exempts from circularization those proposals that exceed the above cited obstruction standard. This is provided the proposal does not lie within an airport traffic pattern. This policy does not affect the public's right to petition for review determinations regarding structures, which exceed the subject obstruction standards.

AERONAUTICAL STUDY FOR POSSIBLE INSTRUMENT FLIGHT RULES (IFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed IFR arrival/departure routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR en route routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR minimum flight altitudes.

AERONAUTICAL STUDY FOR POSSIBLE VISUAL FLIGHT RULES (VFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed VFR arrival or departure routes, operations or procedures.
- > The proposed structure would not conflict with airspace required to conduct normal VFR traffic pattern operations at any known public use or military airports.
- > The proposed structure would not penetrate those altitudes normally considered available to airmen for VFR en route flight.
- > The proposed structure will be appropriately obstruction marked and lighted to make it more conspicuous to airmen flying in VFR weather conditions at night.

The cumulative impact of the proposed structure, when combined with other existing structures is not considered significant. Study did not disclose any adverse effect on existing or proposed public-use or military airports or navigational facilities. Nor would the proposal affect the capacity of any known existing or planned public-use or military airport.

Therefore, it is determined that the proposed construction would not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and would not be a hazard to air navigation.





Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2010-WTE-11810-OE

Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth12
 Location: Monmouth, IL
 Latitude: 40-50-16.43N NAD 83
 Longitude: 90-38-05.52W
 Heights: 463 feet above ground level (AGL)
 1224 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint only - Chapters 12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

See attachment for additional condition(s) or information.

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before October 20, 2010. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted in triplicate to the Manager, Airspace and Rules Division - Room 423, Federal Aviation Administration, 800 Independence Ave., Washington, D.C. 20591.

This determination becomes final on October 30, 2010 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Office of Airspace and Rules via telephone -- 202-267-8783 - or facsimile 202-267-9328.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

If we can be of further assistance, please contact Michael Blaich, at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11810-OE.

Signature Control No: 129662081-131079003

(DNH -WT)

Sheri Edgett-Baron
Manager, Obstruction Evaluation Service

Attachment(s)
Additional Information
Map(s)

Additional information for ASN 2010-WTE-11810-OE

The proposed construction would be located approximately 5.51 nautical miles (NM) south of the Monmouth Municipal Airport (C66). It would exceed the Obstruction Standards of Title 14, Code of Federal Regulations (14 CFR), Part 77 as follows:

Section 77.23(a)(2) by 13 feet - a height that exceeds 450 feet above ground level within 5.51 NM as applied to C66.

The proposal was not circularized for public comment because current FAA obstruction evaluation policy exempts from circularization those proposals that exceed the above cited obstruction standard. This is provided the proposal does not lie within an airport traffic pattern. This policy does not affect the public's right to petition for review determinations regarding structures, which exceed the subject obstruction standards.

AERONAUTICAL STUDY FOR POSSIBLE INSTRUMENT FLIGHT RULES (IFR) EFFECT DISCLOSED THE FOLLOWING:

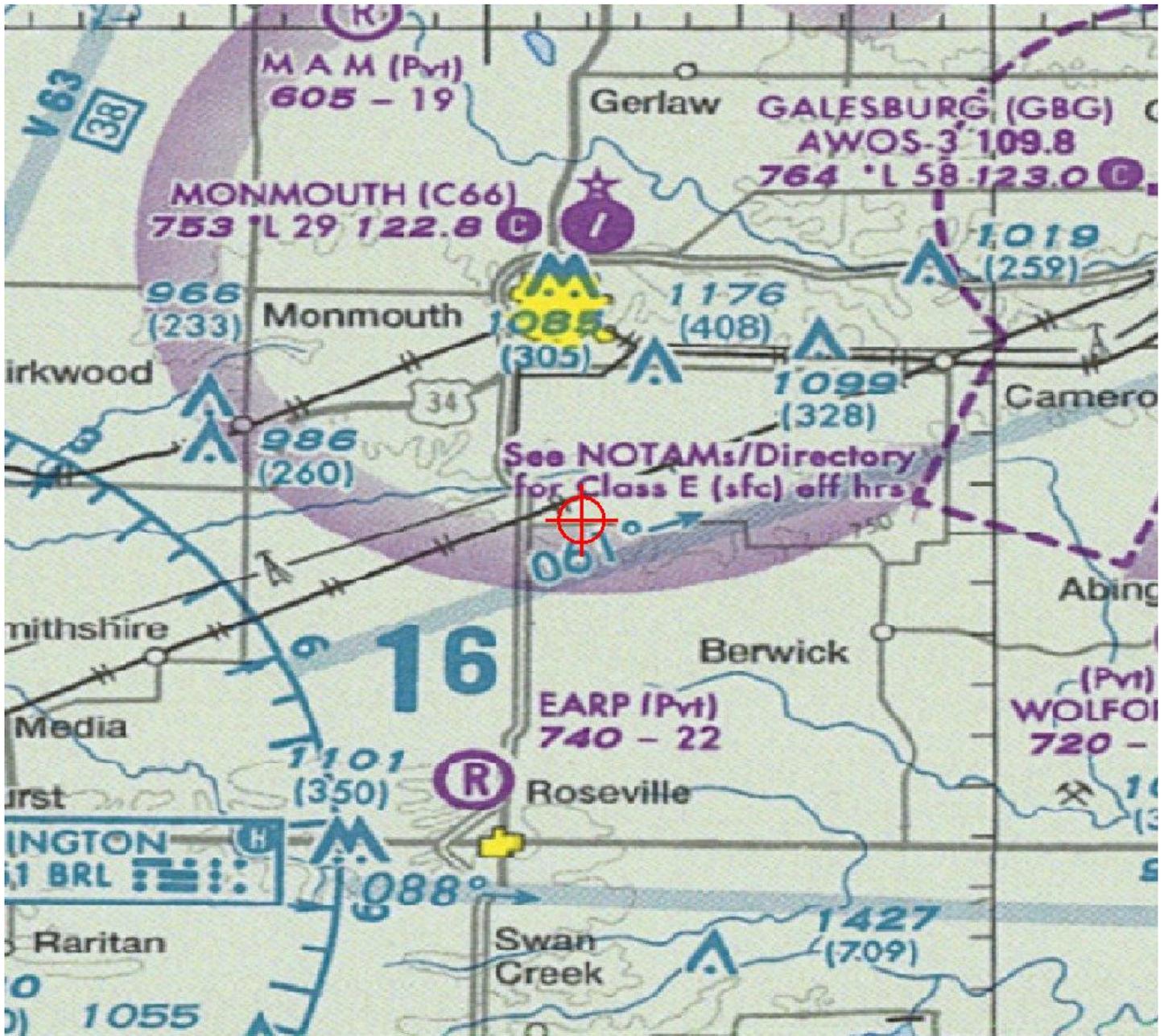
- > The proposed structure would have no effect on any existing or proposed IFR arrival/departure routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR en route routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR minimum flight altitudes.

AERONAUTICAL STUDY FOR POSSIBLE VISUAL FLIGHT RULES (VFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed VFR arrival or departure routes, operations or procedures.
- > The proposed structure would not conflict with airspace required to conduct normal VFR traffic pattern operations at any known public use or military airports.
- > The proposed structure would not penetrate those altitudes normally considered available to airmen for VFR en route flight.
- > The proposed structure will be appropriately obstruction marked and lighted to make it more conspicuous to airmen flying in VFR weather conditions at night.

The cumulative impact of the proposed structure, when combined with other existing structures is not considered significant. Study did not disclose any adverse effect on existing or proposed public-use or military airports or navigational facilities. Nor would the proposal affect the capacity of any known existing or planned public-use or military airport.

Therefore, it is determined that the proposed construction would not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and would not be a hazard to air navigation.





Issued Date: 09/20/2010

Robert Gay
 Monarch Wind Power
 96 Mendota Ave
 Rye, NY 10580

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Wind Turbine Monmouth13
 Location: Monmouth, IL
 Latitude: 40-50-11.62N NAD 83
 Longitude: 90-38-08.79W
 Heights: 463 feet above ground level (AGL)
 1222 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, white paint/synchronized red lights - Chapters 4,12&13(Turbines).

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part I)
- Within 5 days after the construction reaches its greatest height (7460-2, Part II)

See attachment for additional condition(s) or information.

This determination expires on 09/20/2012 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is subject to review if an interested party files a petition that is received by the FAA on or before October 20, 2010. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted in triplicate to the Manager, Airspace and Rules Division - Room 423, Federal Aviation Administration, 800 Independence Ave., Washington, D.C. 20591.

This determination becomes final on October 30, 2010 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Office of Airspace and Rules via telephone -- 202-267-8783 - or facsimile 202-267-9328.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

If we can be of further assistance, please contact Michael Blaich, at (404) 305-7081. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2010-WTE-11811-OE.

Signature Control No: 129662234-131079186

Sheri Edgett-Baron
Manager, Obstruction Evaluation Service

(DNH -WT)

Attachment(s)
Additional Information
Map(s)

Additional information for ASN 2010-WTE-11811-OE

The proposed construction would be located approximately 5.59 nautical miles (NM) south of the Monmouth Municipal Airport (C66). It would exceed the Obstruction Standards of Title 14, Code of Federal Regulations (14 CFR), Part 77 as follows:

Section 77.23(a)(2) by 5 feet - a height that exceeds 458 feet above ground level within 5.59 NM as applied to C66.

The proposal was not circularized for public comment because current FAA obstruction evaluation policy exempts from circularization those proposals that exceed the above cited obstruction standard. This is provided the proposal does not lie within an airport traffic pattern. This policy does not affect the public's right to petition for review determinations regarding structures, which exceed the subject obstruction standards.

AERONAUTICAL STUDY FOR POSSIBLE INSTRUMENT FLIGHT RULES (IFR) EFFECT DISCLOSED THE FOLLOWING:

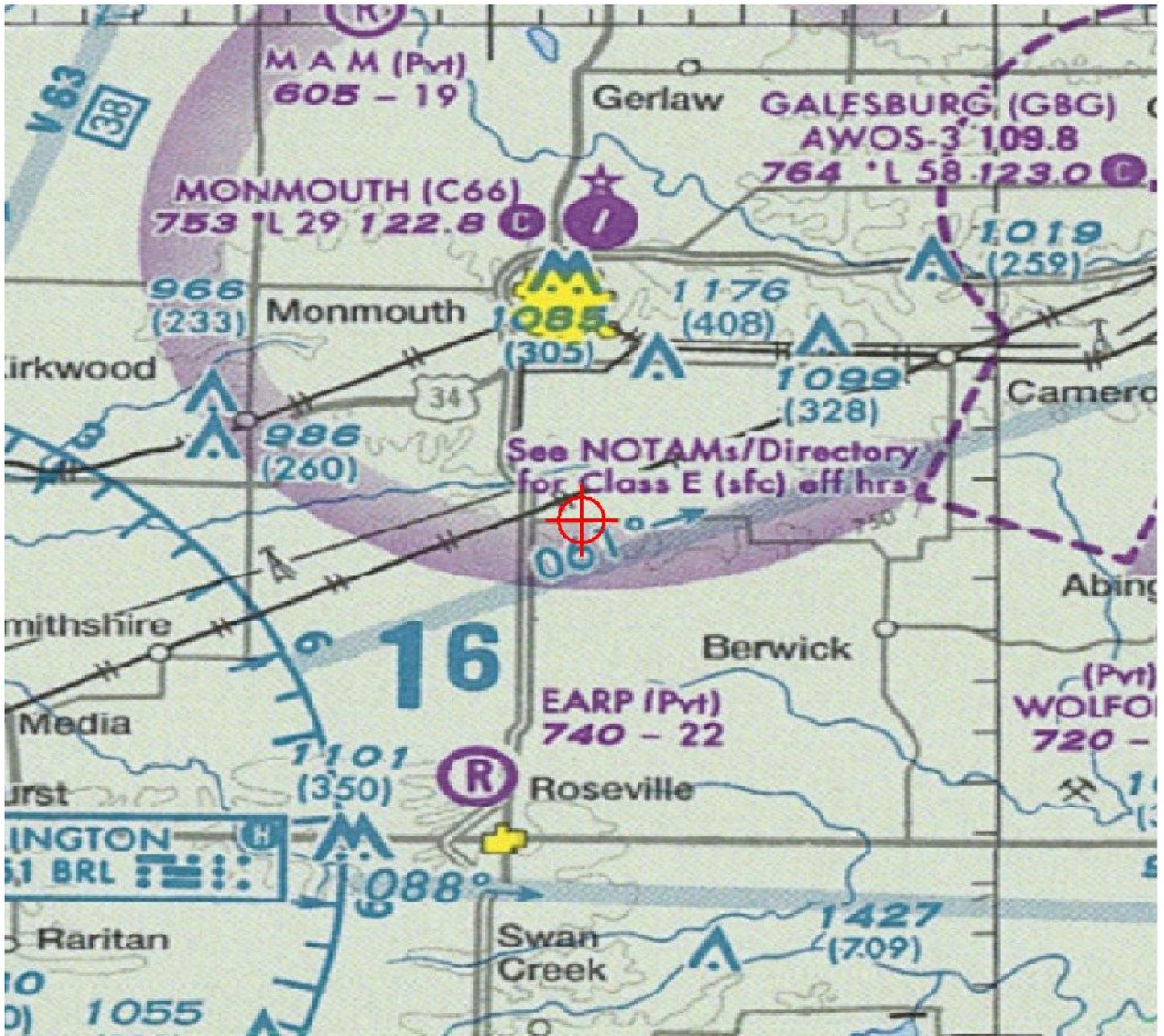
- > The proposed structure would have no effect on any existing or proposed IFR arrival/departure routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR en route routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR minimum flight altitudes.

AERONAUTICAL STUDY FOR POSSIBLE VISUAL FLIGHT RULES (VFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed VFR arrival or departure routes, operations or procedures.
- > The proposed structure would not conflict with airspace required to conduct normal VFR traffic pattern operations at any known public use or military airports.
- > The proposed structure would not penetrate those altitudes normally considered available to airmen for VFR en route flight.
- > The proposed structure will be appropriately obstruction marked and lighted to make it more conspicuous to airmen flying in VFR weather conditions at night.

The cumulative impact of the proposed structure, when combined with other existing structures is not considered significant. Study did not disclose any adverse effect on existing or proposed public-use or military airports or navigational facilities. Nor would the proposal affect the capacity of any known existing or planned public-use or military airport.

Therefore, it is determined that the proposed construction would not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and would not be a hazard to air navigation.



Attachment C-2

**National Telecommunications and Information
Administration**



UNITED STATES DEPARTMENT OF COMMERCE
National Telecommunications and
Information Administration
Washington, D.C. 20230

OCT 19 2010

Ms. Caroline Mann
Office of Energy Efficiency and Renewable Energy (EE-40)
US Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585

Re: Monarch Wind Project, in Warren County, IL

Dear Ms. Mann:

In response to your request on August 20, 2010, the National Telecommunications and Information Administration provided to the federal agencies represented in the Interdepartment Radio Advisory Committee (IRAC) the plans for the Monarch Warren County Wind Project, located in Warren County, Illinois.

After a 45 day period of review, no federal agencies identified any concerns regarding blockage of their radio frequency transmissions.

While the IRAC agencies did not identify any concerns regarding radio frequency blockage, this does not eliminate the need for the wind energy facilities to meet any other requirements specified by law related to these agencies. For example, this review by the IRAC does not eliminate any need that may exist to coordinate with the Federal Aviation Administration concerning flight obstruction.

Thank you for the opportunity to review these proposals.

Sincerely,

Edward M. Davison
Deputy Associate Administrator
Office of Spectrum Management

Type of Notification: NEW

Project: Monarch Warren County Wind Turbine Project

County: Warren

State: Illinois

Project Sponsor: U.S Department of Energy: Energy Efficiency and Renewable Energy

DOE NEPA Document Manager:

DOE Support NEPA Document Manager:

Caroline Mann
Caroline.Mann@ee.doe.gov
(202) 287-5380

John Weckerle
johnw@ageiss.com
(505) 286-4278

Turbine Description:

Number of Turbines:	13
Turbine Size:	1.5 MW
Turbine Hub Height AGL (m):	100.0 m
Maximum Blade Tip Height AGL (m):	141.3 m
Turbine Blade Diameter (m):	82.5 m

Turbine Locations:

GPS: Approximate Center Point: 40.832169, -90.651106 (Google Earth)

Street Address: U.S Highway 67 and 140th Avenue, Kirkwood, IL 61462

Turbines	Latitude	Longitude
Turbine #1	40-49-57.29N	90-39-50.36W
Turbine #2	40-49-48.18N	90-39-51.38W
Turbine #3	40-49-39.15N	90-39-52.38W
Turbine #4	40-49-30.12N	90-39-53.33W
Turbine #5	40-49-21.10N	90-39-54.38W
Turbine #6	40-50-22.66N	90-38-13.69W
Turbine #7	40-49-56.23N	90-39-39.50W
Turbine #8	40-49-46.83N	90-39-40.53W
Turbine #9	40-49-33.45N	90-39-42.11W
Turbine #10	40-49-55.27N	90-39-07.66W
Turbine #11	40-50-20.15N	90-38-26.84W
Turbine #12	40-50-16.43N	90-38-05.92W
Turbine #13	40-50-11.62N	90-38-08.79W

Maps: Please see attached maps and microwave report

Submitted to:

Edward Davison

Email: edavison@ntia.doc.gov

Work Phone: (202) 482-5526

National Telecommunications & Information Administration (NTIA)
Domestic Spectrum Policies & IRAC Support Division (DSID)

&

Joyce C. Henry

Email: jhenry@ntia.doc.gov

Work Phone: (202) 482-1850/51

National Telecommunications & Information Administration (NTIA)
Office of Spectrum Management/HQ

Attachment C-3

Illinois Department of Natural Resources



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Pat Quinn, Governor
Marc Miller, Director

March 19, 2010

Alyson Grady
Illinois Department of Commerce and Economic Opportunity
620 East Adams
Springfield, IL 62701

Re: Monarch Wind Power ARRA REPP
Project Number(s): 1006013 [0811635]
County: Warren

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

Wetlands may exist along the railroad tracks that transect this property. A wetland delineation needs to be conducted to document baseline conditions. The grant should be conditioned to require the avoidance of any state jurisdictional wetlands when possible. Unavoidable impacts will require coordination with the Department to determine the amount of mitigation required under the IWPA.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Michael Branham
Division of Ecosystems and Environment
217-785-5500

Applicant: Illinois Department of Commerce and Economic Opportunity
Contact: Alyson Grady
Address: 620 East Adams
Springfield, IL 62701

IDNR Project #: 1006013
Date: 02/08/2010

Project: Monarch Wind Power ARRA REPP
Address: US 67 and 140th Ave, Monmouth

Description: The project will construct a 10 turbine, 17 MW wind farm on approximately 750 acres in Warren County.

Natural Resource Review Results

Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

Wetland Review (Part 1090)

The National Wetlands Inventory shows wetlands within 250 feet of the project location.

An IDNR staff member will evaluate this information and contact you within 30 days to request additional information or to terminate consultation if adverse effects are unlikely.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Warren

Township, Range, Section:

10N, 2W, 19 10N, 2W, 20
10N, 2W, 29 10N, 2W, 30



IL Department of Natural Resources Contact
Michael Branham
217-785-5500
Division of Ecosystems & Environment

Local or State Government Jurisdiction
IL Department of Commerce and Economic Opportunity
Alyson Grady
620 East Adams
Springfield, Illinois 62701

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.
2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law. Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

Applicant: Edge Consulting Engineers, Inc.
Contact: Tracy Drunasky
Address: 624 Water Street
Prairie du Sac, WI 53578

IDNR Project #: 1010648
Alternate #: 4846, 1006013
Date: 06/23/2010

Project: Monarch Wind Power ARRA REPP
Address: US Hwy 67 and 140th Avenue, Kirkwood

Description: The project will consist of the construction of thirteen (13) wind turbines and a substation on approximately 750 acres in Warren County, IL.

Natural Resource Review Results

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Warren

Township, Range, Section:

10N, 2W, 19	10N, 2W, 20
10N, 2W, 29	10N, 2W, 30
10N, 2W, 31	



IL Department of Natural Resources Contact
Rick Pietruszka
217-785-5500
Division of Ecosystems & Environment

Local or State Government Jurisdiction
Federal Energy Regulatory Commission

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.
2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
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Security

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Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

Attachment C-4

Illinois Department of Agriculture



Pat Quinn, Governor
Thomas E. Jennings, Director

Bureau of Land and Water Resources

State Fairgrounds • P.O. Box 19281 • Springfield, IL 62794-9281 • 217/782-6297 • TDD 217/524-6858 • Fax 217/557-0993

September 23, 2010

Ms. Tracy Drunasky
Edge Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, Wisconsin 53578

Re: Monarch Wind Power LLC
Monarch Wind Farm: ±22 acres
Warren County, Illinois
DCEO High Impact Business Wind Energy Program

Dear Ms. Drunasky:

Thank you for notifying the Illinois Department of Agriculture (IDOA) of the Monarch Wind Power LLC's request to receive the "High Impact Business" designation as established by the Illinois Department of Commerce and Economic Opportunity (DCEO). The IDOA conducted a Study of Agricultural Impacts (copy enclosed) associated with the renewable energy project. The proposal has been examined to determine its potential impact to agricultural land as well as its compliance with Illinois' Farmland Preservation Act (505 ILCS 75/1 et seq.).

Monarch Wind Power plans to construct 13 wind turbine generators in Lenox Township in Warren County. It is our understanding that the new wind farm development will be limited to the wind turbine sites, connector lines, access roads and one electrical substation. As a result of the wind farm's construction, ±7 acres will be permanently converted from agricultural production.

Based upon our study, the IDOA would not object to the DCEO's designation of Monarch Wind Power into its High Impact Business Program. The IDOA would consider such an action to be consistent with the DCEO's Agricultural Land Preservation Policy and the Illinois Farmland Preservation Act.

Should you have any questions regarding our review of this project or our study, please contact Terry Savko of my staff at 217-785-4458.

Sincerely,

A handwritten signature in cursive script that reads "Steven D. Chard".

Steven D. Chard, Acting Chief
Bureau of Land and Water Resources

Enclosure

SDC:TS

cc: Governor Pat Quinn
Sen. John Cullerton
Sen. Christine Radogno
Rep. Michael Madigan
Rep. Tom Cross

Sen. John Sullivan
Rep. Richard Myers
Dominic Saebeler, IDOA
Jared Thornley, IDOA
Jeff Williams, IDOA

Mark Gauss, DCEO
Inter-Agency Committee
Warren Co. SWCD
Agency project file

**ILLINOIS DEPARTMENT OF AGRICULTURE
STUDY OF AGRICULTURAL IMPACTS**

**Monarch Wind Power LLC
Monarch Wind Farm – ±7 acres
Warren County, Illinois
DCEO High Impact Business Wind Energy Program**

The Illinois Department of Agriculture (IDOA) conducted a study of agricultural impacts on the request by the Monarch Wind Power LLC to construct 13 wind turbines and related appurtenances in Warren County. The results of our study are as follows.

- **Prime status of soils** - According to the Warren County Soil Survey, which was mapped by the USDA Natural Resources Conservation Service, the turbine sites are comprised of Prime soils. The farmland that is adjacent to the area is of similar quality.
- **Proximity to corporate boundaries** - Turbine sites will be located in unincorporated areas of Lenox Township in Warren County.
- **Current land use** - All of the wind turbine sites are cropland. The connector strips and substations involve agricultural land and road right-of-way. Six of the 13 structures will be constructed on county-owned property.
- **Adjacent land use** - All sides are in agricultural use.
- **Zoning** - Warren County has zoned the affected property for agricultural use. Land surrounding the turbine sites is zoned for agricultural use.
- **Planned land use** – Warren County does not possess a comprehensive land use plan. However, Warren County has issued the project a special use permit, with the surrounding area to remain in agricultural use.
- **Land in an Agricultural Conservation and Protection Area (505 ILCS 5/1 et seq.)** – None of the property is within a county designated Agricultural Area.
- **Loss of gross agricultural receipts** - The conversion of all agricultural land within the 13 wind turbine sites would result in a **potential annual loss of \$9,854 cash receipts from crops and livestock** based upon statistics from the *Illinois Agricultural Statistics Service's 2009 Annual Bulletin*. ***(Warren County Total Cash Receipts) ÷ (Land in Farms in Warren County) = (\$758)/acre x (±7 ac) in ag use.***

IDOA Opinion - The Monarch Wind Farm project will construct 13 wind turbines in rural Warren County. Each of the project's 13 turbine pad sites and access lanes have been designed to acquire and convert the least possible amount of agricultural land. Upon completion, the project results in the permanent conversion of ±7 cropland acres to a non-agricultural use.

Because the project will convert only the acreage needed for the turbine pads and access roads, and the surrounding rural area that contains Illinois' most productive Prime farmland soils will remain in agricultural use, the IDOA has determined that the project is consistent with the DCEO Agricultural Land Preservation Policy and complies with the Illinois Farmland Preservation Act.

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request 08/11/2010	
Name Of Project Monarch Warren County Wind Turbine Project		Federal Agency Involved US Department of Energy (US DOE)	
Proposed Land Use 13-Turbine Wind Energy Farm		County And State Warren County, Illinois	
PART II (To be completed by NRCS)		Date Request Received By NRCS	
Does the site contain prime, unique, statewide or local important farmland? (If no, the FPPA does not apply - do not complete additional parts of this form).		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Major Crop(s) CORN / SOYBEANS		Farmable Land In Govt. Jurisdiction Acres: 347 375 %	Acres Irrigated 0 Average Farm Size
Name Of Land Evaluation System Used Illinois		Name Of Local Site Assessment System Statewide WARREN COUNTY LESA	Amount Of Farmland As Defined In FPPA Acres: 323 825 % Date Land Evaluation Returned By NRCS 8-23-10
PART III (To be completed by Federal Agency)		Alternative Site Rating	
		Site A	Site B Site C Site D
A. Total Acres To Be Converted Directly		7	
B. Total Acres To Be Converted Indirectly		None	
C. Total Acres In Site		750	
PART IV (To be completed by NRCS) Land Evaluation Information			
A. Total Acres Prime And Unique Farmland		7	
B. Total Acres Statewide And Local Important Farmland		7	
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted		>1%	
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value		>1%	
PART V (To be completed by NRCS) Land Evaluation Criterion			
Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)		99.8	
PART VI (To be completed by Federal Agency)		Maximum Points	
Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))			
1. Area In Nonurban Use			
2. Perimeter In Nonurban Use			
3. Percent Of Site Being Farmed			
4. Protection Provided By State And Local Government			
5. Distance From Urban Builtup Area			
6. Distance To Urban Support Services			
7. Size Of Present Farm Unit Compared To Average			
8. Creation Of Nonfarmable Farmland			
9. Availability Of Farm Support Services			
10. On-Farm Investments			
11. Effects Of Conversion On Farm Support Services			
12. Compatibility With Existing Agricultural Use			
TOTAL SITE ASSESSMENT POINTS		200*	160-
PART VII (To be completed by Federal Agency)			
Relative Value Of Farmland (From Part V)		100	100
Total Site Assessment (From Part VI above or a local site assessment)		200*	160
TOTAL POINTS (Total of above 2 lines)		300*	265
Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

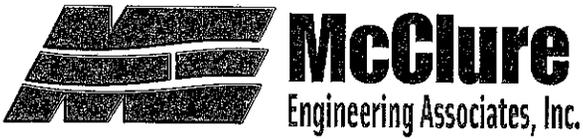
See attached
WARREN COUNTY LESA
Site Assessment Factors

* When using the Warren County Site Assessment factors, 200 points are assigned to the Site Assessment section of the LESA system for a maximum score of 300 points.

Warren County Site Assessment Factors

Monarch Wind Farm Warren County, Illinois

	Maximum Points	Site Score
Agricultural Land Use		
1. Land in Agriculture within 0.5 miles of the Site	20	20
2. Contiguous Land in Agriculture	20	20
3. Percentage of Site in Agriculture	10	10
Compatibility/Impact of Uses		
4. County Sector	20	20
5. Soil Suitability for On-site Waste Disposal	20	20
6. Environmental Impact of Proposed Use	15	0
7. Impact on Unique Historical/Cultural Features	10	0
Existing Infrastructures		
8. Transportation Accessibility	20	10
9. Availability of Central Sewer	15	15
10. Public Water Supply	20	20
11. Distance from Firehouse	20	20
12. Distance from School	10	10
TOTAL SITE ASSESSMENT POINTS	200	165
<hr/>		
Relative Value of Farmland	100	100
Total Site Assessment	200	165
TOTAL Warren County LESA Score	300	265



February 12, 2010

Terry J. Salvo, Soil Conservation Planner
Illinois Department of Agriculture
Bureau of Farmland Protection
State Fairgrounds
Springfield, IL 62701-9281

Re: Monarch Wind Farm
MEAI #03-15-10014

Dear Terry:

Monarch Wind Farms has recently begun design on a new wind farm in Warren County. This project will be privately funded and is estimated to have a construction cost of approximately \$20,000,000.00.

This project includes the construction of 13 wind turbine generators (80 meter hub height and 82.5 meter blade diameter) on concrete spread footings; access roads for construction equipment and materials, equipment delivery and construction of buried electrical cables. The construction road will be partially removed and a maintenance access road will be left in place. I am attaching copies of the agricultural review information form, a USGS map with the project site highlighted, and a site map.

I am hereby requesting that your agency review the project and transmit a sign-off letter indicating that there are no objections to the project. If you have any questions or concerns, please feel free to contact me. Thank you for your time and prompt attention to this matter.

Sincerely,

McCLURE ENGINEERING ASSOCIATES, INC.

A handwritten signature in black ink that reads 'Chris Firof'.

Chris Firof, EIT, SIT
Project Engineer
CTF/lb

Enc.

Cc: Robert Gay, Monarch Wind Power LLC

M:\DOCLINDA61\Monarch Wind Farm\Ltr to Dept of Ag Requesting Sign-off.doc

AGRICULTURAL REVIEW INFORMATION Requested for the Illinois Department of Commerce and Economic Opportunity Grants Including CDAP, AFPI, BDPI, and LBDP Projects
--

Return this information to: Illinois Department of Agriculture (**Terry Savko**)
 Bureau of Land and Water Resources
 State Fairgrounds, P.O. Box 19281
 Springfield, Illinois 62794-9281
 Telephone 217-785-4458 FAX 217-557-0993

Attach this Agricultural Site Review Information sheet and the DCEO Project Summary to the project's cover letter and send it to the address listed above. The **Project Summary sheet**, which is part of the DCEO Application Packet, **must accompany** the initial review request to the Illinois Department of Agriculture (IDA) because it provides an overview of the project as well as relevant background information. Be sure to **include** a location map delineating the site in relation to the city/village's corporate boundaries.

TYPE OF DCEO or CDAP FUNDS REQUESTED*Date of Submittal* 02/12/10*Check one:*

- CDAP** Economic Development Financial Assistance Public Facilities/Infrastructure
 Emergency Public Facilities Flood Related In Support of Economic Development
 Affordable Financing Public Infrastructure (**AFPI**)
 DCEO Business Development Public Infrastructure (**BDPI**)
 DCEO Large Business Development Program (**LBDP**)

PROJECT INFORMATION REQUESTED*Name of*

APPLICANT Monarch Wind Farm County Warren

Local Official Robert Gay Telephone 914-9674684

List the project's contact person should additional information be required. It is preferable to list the project's consultant and/or engineer rather than the mayor since they usually possess the more detailed information we need in order to complete our review. Remember, the IDA has a **30-day review period** in which to provide comments to the applicant once all pertinent information has been received.

Consultant /Engineer Eric Moe / McClure Engineering Assoc. Inc.

Address 714 East Jackson Street

City Macomb, IL 61455

Telephone 309-833-4594 FAX 309-837-4909

1. Number of acres in the site 23.1 acres 1a. Actual size of entire project site 23.1 acres
2. Will the site be converted from an agricultural to a non-agricultural use? Yes No
3. Is the site located within municipality's corporate boundaries? Yes No
4. If no, how far is the site from the nearest incorporated municipal boundaries? 3.2 miles (to nearest tenth-mile increment)

LAND USE

5. Current land use on site is Row Crop Pasture Forest Other (check all that apply)

If Other, specify land use and land cover residential land covered by pavement

6. List the current land use for the parcel's four adjacent sides.

North agricultural

East agricultural

South agricultural

West agricultural

ZONING

Check if site is not zoned

0. Site is zoned by the city or Warren _____ County for agricultural use.
(name)

8. List the designated zoning for each of the site's four sides.

Zoning north of site agricultural by city or county

Zoning east of site agricultural by city or county

Zoning south of site agricultural by city or county

Zoning west of site agricultural by city or county

COMPREHENSIVE LAND USE PLAN

9. Does the city or county comprehensive land use plan designate land use at the project site?

Yes **If Yes**, city, county or both? _____
Include the name of city, county or both entities

No

10. The comprehensive land use plan was officially adopted in (year) _____

by city or village the county both

11. The designated land use for the site is _____ by the city county

12. List the comprehensive land use plan's designated land uses for each of the site's four sides.

North _____

East _____

South _____

West _____

Will other state or federal funds be used

for this project? Yes No **If YES**, list the name(s) of participating agencies:

	state \$	federal \$
1) _____	<input type="checkbox"/>	<input type="checkbox"/>
2) _____	<input type="checkbox"/>	<input type="checkbox"/>
3) _____	<input type="checkbox"/>	<input type="checkbox"/>

August 11, 2010

Warren County SWCD
Attn: Rick Winbigler
701 North Main Street
Monmouth, IL 61462

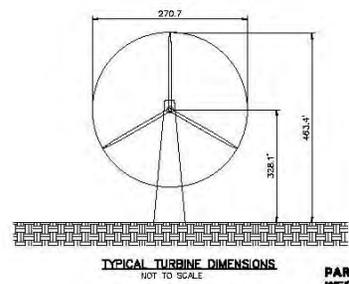
**SUBJECT: NRCS AD-1006 SYNOPSIS LETTER
MONARCH WARREN COUNTY WIND TURBINE PROJECT**

Dear Mr. Winbigler:

Monarch Wind Power (MWP) is proposing to construct and operate a 13-turbine, 20 MW wind energy project on approximately 750 acres of land leased in Warren County, Illinois in collaboration with GE Energy (turbine supplier) and WPCS International (the contractor). The site is located about four miles south of Monmouth in West Central Illinois along both sides of Route 67 (see Figure 1 – Project Map). The entire 20 MW facility would be interconnected to an existing Ameren radial 69kv line that runs along Route 67 (line #6630) and traverses the site. The hub height of each tower would be 100 meters and the rotor diameter is to be 82.5 meters, for a total overall wind turbine height of 141.25 meters.

The area of the proposed project is developed as agricultural fields, which in spring 2010 was planted with either corn or bean crops. The proposed project area is located entirely within existing agricultural fields (row corn and soybeans), and has been extensively disturbed by decades of cultivation. The overall project area is 750 acres in size, but areas of ground disturbance are limited to 16 acres. Much of this acreage could be reclaimed for agricultural purposes after construction activities, as the area the wind turbine base/fenced area, associated access drives, and substation will only occupy a total of approximately 6.7 acres.

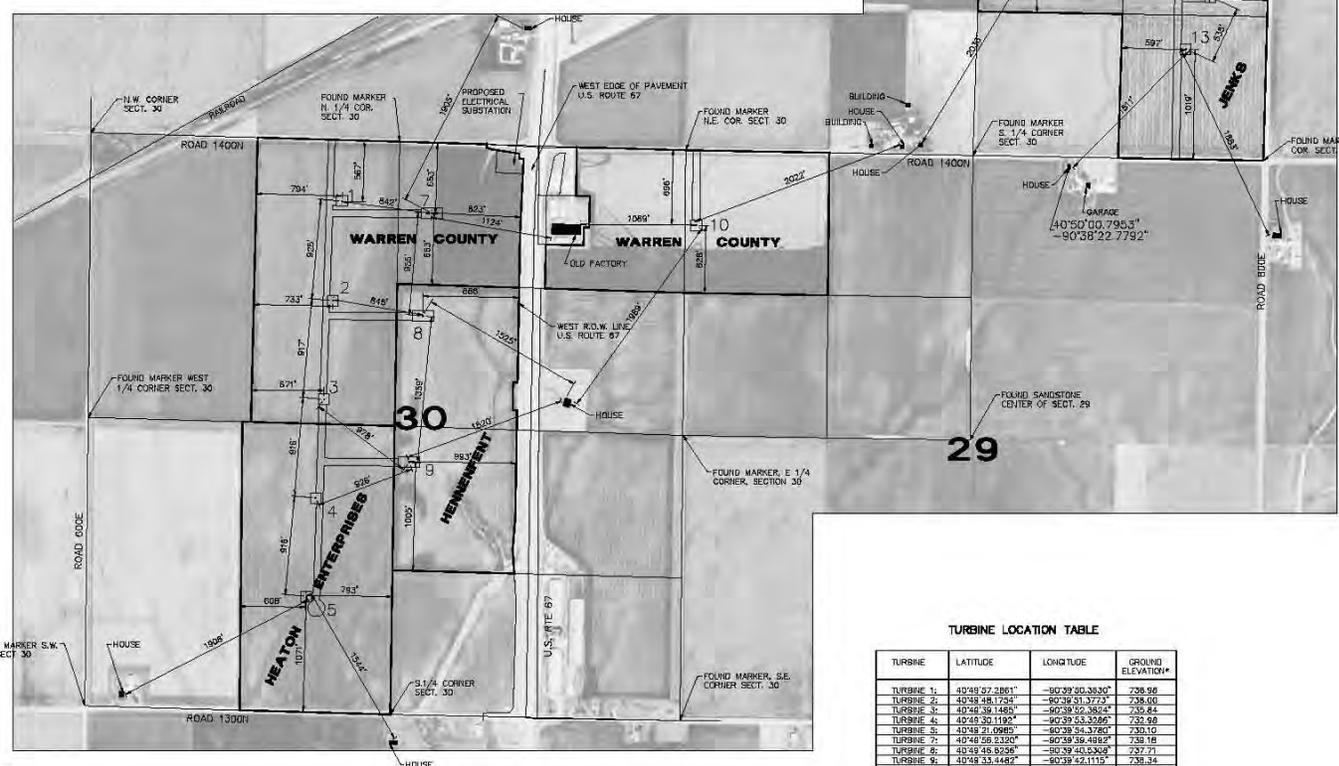
Native soils typically consist primarily of Muscatine silt loam (51A). This soil type is typically gently sloping and is poorly drained. The depth to bedrock is greater than 6 feet. Bedrock is commonly sedimentary rock of the Pennsylvanian Age. Other soils within the project area include 68A (Sable silty clay), 86B (Osco silt loam), 86B2 (Osco silt loam), and 86C2 (Osco silt loam). A map of the soils is included as Figure 2 – Soils Map. All soils with the exception of 86C2 are considered prime farmland.



TURBINE AND SETBACK DATA

PROPOSED TURBINE DATA (C.E. 1.6 M.W. UNIT)
 328.1' HIGH HUB HEIGHT (282.9' HIGH OPTIONAL)
 ROTOR DIAMETER 270.7'
 TOTAL HEIGHT 463.4'
 MINIMUM BOUNDARY LINE SETBACK REQUIREMENT = TOTAL HEIGHT x 1.1 = 510'
 DISTANCE BETWEEN TURBINES = ROTOR DIAMETER + 300' = 471'
 MINIMUM SETBACK FROM OCCUPIED STRUCTURES = 100'

PART OF TOWNSHIP 10 NORTH, RANGE 2 WEST, 4th P.M., WARREN COUNTY, ILLINOIS



TURBINE LOCATION TABLE

TURBINE	LATITUDE	LONGITUDE	GROUND ELEVATION*
TURBINE 1:	40°48'57.2861"	-90°39'50.3830"	738.56
TURBINE 2:	40°48'58.1724"	-90°39'31.3775"	738.00
TURBINE 3:	40°48'38.1445"	-90°39'52.3654"	732.84
TURBINE 4:	40°48'30.1192"	-90°39'53.3266"	732.98
TURBINE 5:	40°48'21.0965"	-90°38'51.3780"	730.10
TURBINE 7:	40°48'59.8300"	-90°38'58.4862"	738.18
TURBINE 8:	40°48'48.8258"	-90°39'40.5300"	737.71
TURBINE 9:	40°48'33.4468"	-90°38'42.1115"	738.34
TURBINE 10:	40°48'55.3753"	-90°39'07.6859"	748.30
TURBINE 11:	40°50'20.4521"	-90°38'26.8385"	763.60
TURBINE 6:	40°50'23.8358"	-90°38'13.8961"	763.28
TURBINE 12:	40°50'18.4590"	-90°38'05.8215"	761.67
TURBINE 13:	40°50'11.6166"	-90°38'08.7926"	758.68

*MAGD 1883 (FEET ABOVE SEA LEVEL)

LEGEND

- BOUNDARY OF LEASE AREA SURVEYED
- PROPOSED 100' SQUARE AREA FOR TURBINE LOCATION
- PROPOSED 100'x200' AREA FOR TURBINE LOCATION

Figure 1 - Project Map

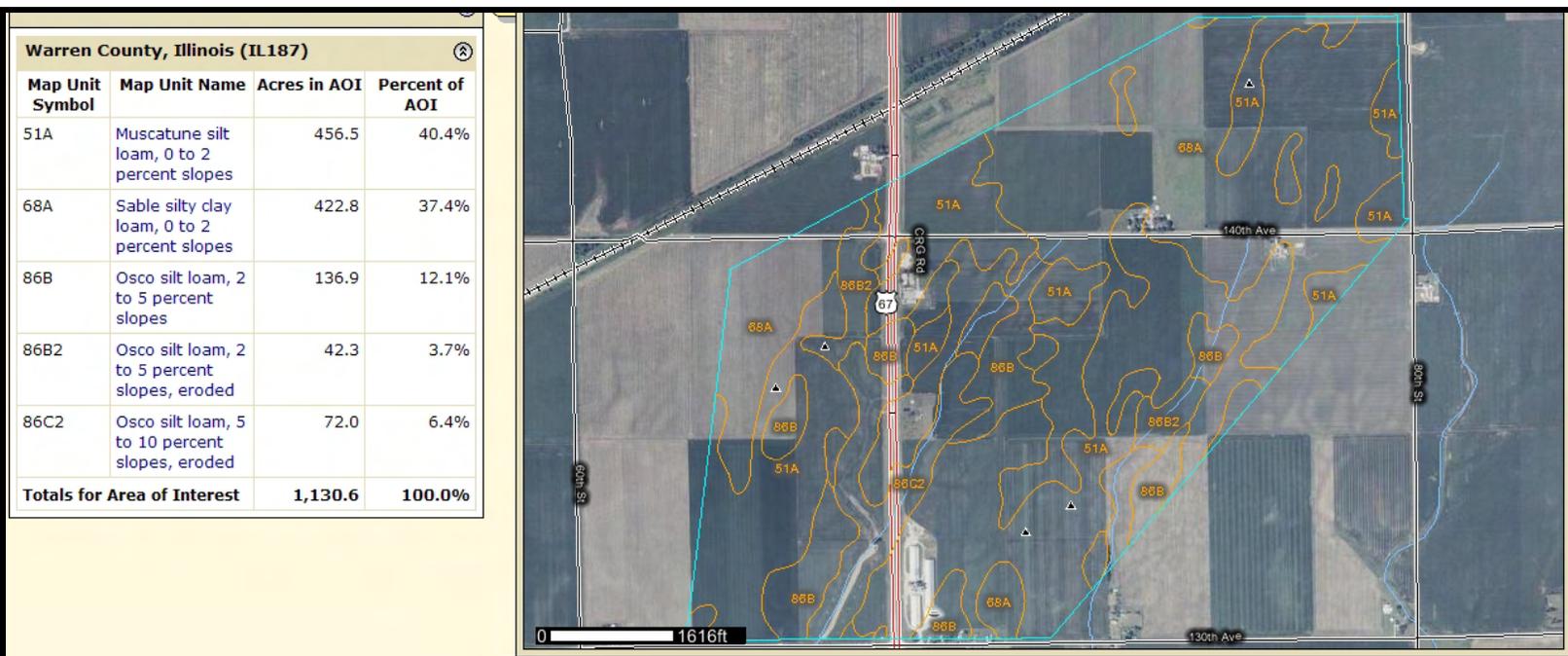


Figure 2 – Soils Map

Enclosed is Form AD-1006. Parts II, IV, V, VI, and VII are to be filled out by your office. Upon completion, the form will need to be sent to the DOA, as outlined in the letter attached to this letter.

Please feel free to contact me if you have any questions.

Sincerely,
Edge Consulting Engineers, Inc.

Tracy L. Drunasky
Environmental Professional/Scientist

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request			
Name Of Project		Federal Agency Involved			
Proposed Land Use		County And State			
PART II (To be completed by NRCS)		Date Request Received By NRCS			
Does the site contain prime, unique, statewide or local important farmland? <i>(If no, the FPPA does not apply -- do not complete additional parts of this form).</i>		Yes <input type="checkbox"/>	No <input type="checkbox"/>	Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount Of Farmland As Defined in FPPA Acres: %			
Name Of Land Evaluation System Used Illinois	Name Of Local Site Assessment System Statewide	Date Land Evaluation Returned By NRCS			
PART III (To be completed by Federal Agency)		Alternative Site Rating			
		Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly					
B. Total Acres To Be Converted Indirectly					
C. Total Acres In Site					
PART IV (To be completed by NRCS) Land Evaluation Information					
A. Total Acres Prime And Unique Farmland					
B. Total Acres Statewide And Local Important Farmland					
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted					
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value					
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value Of Farmland To Be Converted <i>(Scale of 0 to 100 Points)</i>					
PART VI (To be completed by Federal Agency) Site Assessment Criteria <i>(These criteria are explained in 7 CFR 658.5(b))</i>		Maximum Points			
1. Area In Nonurban Use					
2. Perimeter In Nonurban Use					
3. Percent Of Site Being Farmed					
4. Protection Provided By State And Local Government					
5. Distance From Urban Builtup Area					
6. Distance To Urban Support Services					
7. Size Of Present Farm Unit Compared To Average					
8. Creation Of Nonfarmable Farmland					
9. Availability Of Farm Support Services					
10. On-Farm Investments					
11. Effects Of Conversion On Farm Support Services					
12. Compatibility With Existing Agricultural Use					
TOTAL SITE ASSESSMENT POINTS		160			
PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland <i>(From Part V)</i>		100			
Total Site Assessment <i>(From Part VI above or a local site assessment)</i>		160			
TOTAL POINTS (Total of above 2 lines)		260			

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input type="checkbox"/> No <input type="checkbox"/>
Reason For Selection:		

Completion of USDA Natural Resources Conservation Service (NRCS) Form AD-1006, Farmland Conversion Impact Rating

The completion of the USDA-NRCS Form AD-1006 Farmland Conversion Impact Rating is required whenever any project receiving federal monies will convert Prime and Statewide Important agricultural land to a non-agricultural land use on property located **outside** a municipality's corporate boundaries. ***It should also be initiated for property within the corporate boundaries if it is zoned for agricultural use.*** This includes **all** agricultural land (crop, hay, pasture and timber land). Land outside the corporate boundaries, often classified as idle or vacant by developers, is considered to be in agricultural use unless it is specifically zoned for non-agricultural use by the county. The USDA-NRCS Form AD-1006 is available locally through the county Soil and Water Conservation District /USDA-NRCS office.

The attached list shows the 38 Illinois counties that have their own State NRCS-approved Land Evaluation and Site Assessment (LESA) systems. Projects in these counties should have the Form AD-1006 completed at the county level. A copy of the completed AD-1006 form should be submitted to the Illinois Department of Agriculture (IDOA) when the applicant requests comments on the proposal. All other projects in the remaining counties will be evaluated at the state level, and forms should be sent to the State NRCS Office in Champaign, Illinois. Regardless whether a county has an official LESA System in place, ***all road projects OUTSIDE the corporate limits must be sent to the State NRCS office*** for completion.

The applicant should complete Parts I and III of the AD-1006 form and send it to Mr. Bob McLeese with the Illinois NRCS State Office. In your notification letter to Mr. McLeese, include the AD-1006 form, the project summary sheet(s) explaining the project, a detailed soil mapping unit sheet from the county's Soil Survey delineating the site (or road corridor), a list of affected soil mapping units with their respective acreage, and a site map showing its location to the entity's corporate limits. Please mention to Mr. McLeese to forward the completed AD-1006 form and a copy of the project information to Terry Savko with the Illinois Department of Agriculture. This information packet should be mailed to:

**Mr. Bob McLeese, State Soil Conservationist
USDA-Natural Resources Conservation Service
2118 W. Park Court
Champaign, IL 61821
(217) 353-6641**

NRCS will complete Parts II, IV, and V before forwarding the form and the accompanying information to the IDOA. Two copies of the completed Form AD-1006 will be returned by the IDOA to the person/consultant/agency who initiated its completion along with our written comments as to whether the project complies with the intent of the Illinois Farmland Preservation Act. Completion of this form is necessary so that federal funds can be released in a timely manner and does not interfere with a project's implementation.

One copy of the Form AD-1006 must be included in the project's Environmental Assessment; the other is for your project file. Questions regarding its completion may be directed to Terry Savko with the IDOA, Bureau of Land and Water Resources at 217-785-4458.

Attachment C-5

Illinois Historic Preservation Agency

October 11, 2010

Illinois Historic Preservation Agency
Ms. Anne Haaker
1 Old State Capitol Plaza
Springfield, Illinois 62701-1507

**SUBJECT: SECTION 106 REVIEW
MONARCH WIND POWER LLC WIND FARM PROJECT
MONARCH WIND FARM
WARREN COUNTY, IL
IHPA LOG #038021610**

Dear Ms. Haaker:

This letter is being sent on behalf of Monarch Wind Power and is to serve as a response to the letter received from your office on September 23, 2010, requesting the following three items for the above referenced project:

- 1) Archaeological monitoring of all ground disturbing activities in the Northeast corner of the leases space for the planned electrical substation
 - Monarch Wind Power will use Mr. Mark Branstner of Great Lakes Research, Inc. to perform the archaeological monitoring.
- 2) Written response that your office agrees with the above condition
 - This letter shall serve as a written response that Monarch Wind Power agrees with the above condition.
- 3) Findings from the archaeological investigation report are submitted to your office for review and acceptance.
 - Upon completion of Mr. Branstner's on-site monitoring, Mr. Branstner will compose an archaeological investigation report describing the outcome of the excavation activities. Edge Consulting, on behalf of Monarch Wind Power, will submit the findings to your office for review and acceptance.

Per our previous conversations with your office, it is our understanding that the Illinois Historic Preservation Agency concurs with the determination of *No Effect* for indirect effects to properties listed or eligible for listing on the National Register as a result of this project. Further, we seek your concurrence for the *Conditional No Adverse Effect* determination for direct effects.

If there are any questions, or if you need additional information to provide comments, please feel free to contact our office.

Respectfully,

Tracy L. Drunasky
Environmental Scientist
Edge Consulting Engineers, Inc



Illinois Historic
Preservation Agency

FAX (217) 782-8161

1 Old State Capitol Plaza • Springfield, Illinois 62701-1512 • www.illinois-history.gov

Warren County

Larchland

New Construction, Monarch Wind Farm

East and West sides of U.S. Route 67 between 130th Ave. and 150th Ave.

Warren County Poor Farm Cemetery - Intersection of U.S. Route 67 and 140th Ave.,

Kirkland

Edge-4846

IHPA Log #038021610

September 23, 2010

Tracy L. Drunasky

Edge Consulting Engineers, Inc.

624 Water Street

Prairie du Sac, WI 53578

Dear Ms. Drunasky:

We have reviewed the documentation provided for the above referenced project. The Warren County Poor Farm Cemetery is considered eligible for listing on the National Register of Historic Places.

In our opinion the project meets the Secretary of the Interior's "Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings" and we concur in a finding of no adverse effect pursuant to 36 CFR Part 800 provided that the following conditions are met:

1. Archaeological monitoring of all ground disturbing activities in the Northeast corner of the leased space for the planned electrical substation.
2. Written response that your office agrees with the above condition.
3. Findings from the archaeological investigation report are submitted to our office for review and acceptance.

Notifying our office of agreement with these conditions and their subsequent implementation constitutes compliance with Section 106 of the National Historic Preservation Act of 1966, as amended.

If you have any questions, please contact me at 217/785-5027.

Sincerely,

Anne E. Haaker

Deputy State Historic

Preservation Officer

Attachment C-6

U.S. Fish and Wildlife Service



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265
Phone: (309) 757-5800 Fax: (309) 757-5807

IN REPLY REFER
TO: FWS/RIFO

July 12, 2010

Ms. Tracy L. Drunasky
Environmental Scientist
Edge Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, Wisconsin 53578

Dear Ms. Drunasky:

This responds to your letter dated June 23, 2010, requesting our comments on the proposed development of a wind farm in west-central Illinois. The U.S. Fish and Wildlife Service (Service) appreciates the opportunity to review the proposed wind energy project location and provide technical assistance to Edge Consulting Engineers, Inc. and Monarch Wind Power, LLC as it relates to federally threatened and endangered species, as well as non-listed migratory bird species possibly occurring within your project area in Warren County, Illinois. A list and habitat descriptions of all federally threatened and endangered species potentially occurring in your project area are provided in Attachment 1.

Federally Protected Bats

The project boundary is located less than 2.5 miles (average maximum foraging distance of summering Indiana bats) away from the nearest potential maternity habitat and contains other suitable habitats that could be used by Indiana bats. Nonetheless, no continuity exists between these habitats and the nearest maternity habitat, providing no pathway for take of this endangered species during the summer. Current literature indicates open expanses greater than 1000 feet are not typically spanned by foraging Indiana bats. Therefore, even if suitable habitat exists in the project vicinity, it is unlikely the habitat will be utilized as it is part of a non-contiguous landscape. However, because of the seasonal life history characteristics of migratory bats, the Monarch Wind Farm may affect the Indiana bat during spring and fall migrations. We recommend participation in the Regional Habitat Conservation Plan, further discussed below, because of the possibility of taking migratory individuals of this species.

We further recommend your client acquire additional information that could be used to determine the level of take anticipated for the endangered Indiana bat at this project location. At a minimum, we recommend passive monitoring with acoustic recording devices during the spring and fall migration seasons. This data should be analyzed yearly in an attempt to decipher species activity within the project area. If Indiana bats are detected, an Incidental Take Permit is needed. Furthermore, this office should be promptly informed of the record to assist in the development of additional, more complex research that thoroughly indicates the spatial and temporal patterns of Indiana bat usage near the project. Lastly, this office would appreciate the opportunity to assist you with the acoustic survey design and should be provided with the survey results at the conclusion of the study.

Habitat Conservation Plan

The lethal take of an Indiana bat by a wind turbine near the Indiana border has confirmed the Service's suspicions that this species may be affected by wind farms during migration. However, the cumulative impacts of wind farms on migrating Indiana bats are unclear at this point because of our lack of knowledge surrounding this species migration routes. Your client should consider participating in the Regional Habitat Conservation Plan (HCP) because of these uncertainties. The HCP will support the issuance of incidental take permits by the Service that will provide take coverage for construction, operation, and maintenance of wind energy and ancillary facilities in the Midwest region, provided that the anticipated take does not rise to the level of jeopardizing the continued existence of the species. Your partnership in this project will ensure the development of a document that meets both industry and wildlife recovery standards.

Federally Protected Birds

Individuals of an experimental population of endangered whooping cranes have used wetlands and agricultural lands as stop-over habitat in Illinois in recent years. Habitats within your project that area likely to be used by this population should be free of disturbance and void of any infrastructure, including above-ground transmission lines, which may harm or alter a whooping crane's normal biological behavior. We refer you to the Whooping Crane Eastern Partnership located at the following webpage for further avoidance recommendations:

<http://www.bringbackthecranes.org/>

Raptors have also exhibited difficulty traversing through and around wind projects. The golden eagle and the newly delisted bald eagle are among these and are additionally protected under the Bald and Golden Eagle Protection Act. Under this act it is illegal to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, destroy, molest, or disturb eagles. Should avian surveys indicate high levels of eagle activity near your project area, it is possible that your project may require an eagle take permit. For more information on how to avoid impacts to these species go to our website: <http://www.fws.gov/midwest/eagle/guidelines/index.html>

Conservation Measures

Lastly, we recommend that an avian and bat protection plan be drafted. This plan should address the use of conservation practices that would alleviate adverse effects on all protected species occurring within the project area. We would be pleased to assist in the development or review of any wildlife monitoring or protection plan you establish for this project.

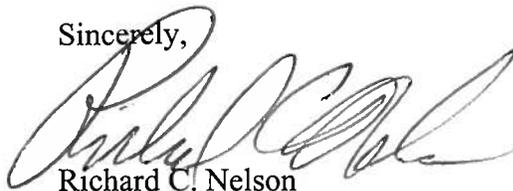
Wetlands

Wetlands are valuable for flood and groundwater retention, filtration, and fish and wildlife habitat. Priority consideration should be given to avoid impacts to wetland areas. Any future activities in the study areas that would alter wetlands may require a Section 404 permit. Unavoidable impacts will require a mitigation plan to compensate for any losses of wetland functions and values. The U.S. Army Corps of Engineers, Clock Tower Building, P.O. Box 2004, Rock Island, Illinois 61201-2004, should be contacted for information about the permit process.

These comments provide technical assistance only and do not constitute the report of the Secretary of the Interior on the project within the meaning of Section 2(b) of the Fish and Wildlife Coordination Act, do not fulfill the requirements under Section 7 of the Endangered Species Act, nor do they represent the review comments of the U.S. Department of the Interior on any forthcoming environmental statement.

If you have any questions, please contact Matt Sailor of my staff at (309) 757-5800, extension 216.

Sincerely,



Richard C. Nelson
Field Supervisor

Enclosure

cc: ILDNR (Shank)

Attachment 1:

Threatened and Endangered Species

<u>Classification</u>	<u>Common and Scientific Name</u>	<u>County</u>	<u>Habitat</u>
Endangered	Indiana bat (<i>Myotis sodalis</i>)	Warren	Caves, mines; small stream corridors with well developed riparian woods; upland forests
Endangered (<i>Experimental Population</i>)	Whooping Crane (<i>Grus americana</i>)	Warren	Wetlands, shallow water sand and gravel bars, various croplands
Threatened	Eastern prairie fringed orchid (<i>Platanthaera leucophaea</i>)	Warren	Mesic to wet prairies

Habitat Descriptions for Federally Threatened, Endangered and Candidate Species in Warren County, Illinois

The federally endangered **Indiana bat** (*Myotis sodalis*) is listed statewide in Illinois and maternity colonies have been found adjacent to your project area in Warren County, Illinois. Indiana bats in Illinois may use a variety of caves and abandoned mines for hibernation, and use the hibernacula's adjacent woodlands during spring emergence and fall swarming. During the summer female Indiana bats form maternity colonies and males, mostly solitary, will typically roost in trees with loose, peeling bark or cavities. Indiana bats will forage close to their roost or hibernaculum where they frequent wooded riparian corridors, mature upland forests, clearings with early successional vegetation (old fields), borders of croplands, wooded fencerows, farm ponds, and pastures. Altogether, Indiana bats establish several differing home ranges, depending on seasonal requirements. The area that constitutes a home range can be relatively large due to the animal's energetic requirements.

Suitable summer habitat in Illinois is considered to have the following characteristics within a ½ mile radius of a project site:

- 1) forest cover of 15% or greater;
- 2) permanent water;
- 3) potential roost trees with 10% or more peeling or loose bark

An experimental population of federally endangered **whooping cranes** (*Grus americana*) can occur statewide in Illinois during migration. Each year this experimental population migrates from its breeding grounds in Wisconsin (mid-September), to its wintering grounds off the Gulf Coast of Florida (late December). Any freshwater environment, or any agricultural field adjacent to such an environment, that provides ample foraging opportunities and low levels of disturbance can be utilized as stop-over habitat by individuals of this population during spring and fall migrations. To date they have principally used wetlands and agricultural areas on the

eastern border of Illinois and western Indiana. For further information on this species see the Whooping Crane Eastern Partnership webpage: <http://www.bringbackthecranes.org/>

The threatened **eastern prairie fringed orchid** (*Platanthera leucophaea*) may potentially occur in Warren County, Illinois. It occupies wet to mesic grassland habitats. There is no critical habitat designated for this species. Federal regulations prohibit any commercial activity involving this species or the destruction, malicious damage, or removal of this species from Federal land or any other lands in knowing violation of State law or regulation, including State criminal trespass law. This species should be searched for whenever wet prairie remnants are encountered.

Attachment C-7

Illinois Environmental Protection Agency



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR

DOUGLAS P. SCOTT, DIRECTOR

217-782-0547

February 25, 2010

Mr. Chris Firof, EIT, SIT
Project Engineer
McClure Engineering Associates, Inc.
714 East Jackson
Macomb, IL 61455



MAR 01 2010

Dear Mr. Firof:

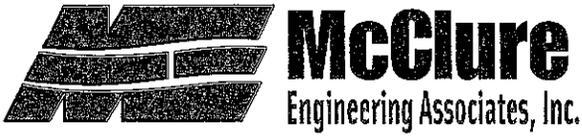
We have reviewed the information received on the proposed project for the Monarch Wind Farm in Warren County.

The Agency has no objections to the project; however a construction site activity stormwater NPDES permit may be required from the Division of Water Pollution Control for more than one acre being disturbed during construction. For information concerning the NPDES permit, you may contact Al Keller, 217-782-0610.

Solid and hazardous waste must be properly disposed of or recycled.

Sincerely,

Lisa Bonnett
Acting Deputy Director



February 12, 2010

Linda Laws
Illinois Environmental Protection Agency
Deputy Directors Office, #1
P. O. Box 19276
Springfield, IL 62701-9276

Re: Monarch Wind Farm
MEAI #03-15-10014

Dear Ms. Laws:

Monarch Wind Farms has recently begun design on a new wind farm in Warren County. This project will be privately funded and is estimated to have a construction cost of approximately \$20,000,000.00.

This project includes the construction of 13 wind turbine generators (80 meter hub height and 82.5 meter blade diameter) on concrete spread footings; access roads for construction equipment and materials, equipment delivery and construction of buried electrical cables. The construction road will be partially removed and a maintenance access road will be left in place. I am attaching copies of a USGS map with the project site highlighted and a site map.

I am hereby requesting that your agency review the project and transmit a sign-off letter indicating that there are no objections to the project. If you have any questions or concerns, please feel free to contact me. Thank you for your time and prompt attention to this matter.

Sincerely,

McCLURE ENGINEERING ASSOCIATES, INC.

A handwritten signature in black ink that reads "Chris Firof". The signature is written in a cursive, flowing style.

Chris Firof, EIT, SIF
Project Engineer
CTF/lb

Enc.

Cc: Robert Gay, Monarch Wind Power LLC

M:\DOCL\LINDA61\Monarch Wind Farm\Ltr to EPA Requesting Sign-off.doc