

**STARK COUNTY, NORTH DAKOTA
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION
NON-BUILDING SITUATION**
(Attach additional information as necessary)

1. GENERAL INFORMATION:

Community: Rural Stark County

PERMIT # 0517201602 DATE: April 28, 2016

Applicant: John DiDonato, NextEra Energy
Address: 700 Universe Boulevard, Juno Beach, FL 33408
Telephone #: 561-304-5244

Contractor: Chris Ansari, Tetra Tech, Inc.
Address: 350 Indiana Street, Suite 500, Golden, CO 80401
Telephone #: 303-217-5700

Estimated Cost of project: \$ 270,500,000

Description and location of proposed development:

Brady Wind Energy Center (Project). Field surveys were completed October through February 2016. The Project includes the construction of wind turbines and an associated transmission line in Stark County, North Dakota.

Brady Wind, LLC (Brady Wind), a wholly-owned, indirect subsidiary of NextEra Energy Resources, LLC (NEER), is proposing to construct the Brady Wind Energy Center (Project) in southern Stark County, North Dakota (**Attachment 2, Map Sheets**). The Project area is the location within which Brady Wind has negotiated easements with landowners, and encompasses approximately 30,213 acres (47 square miles).

The Project will have a nameplate capacity of approximately 150 megawatts (MW), consisting of up to 87 wind turbines using both General Electric (GE) 1.715 MW Xle and GE 1.79 MW Xle wind turbine generators. Additional facilities include access roads, underground electrical collection systems and cabling, a collection substation, an operation and maintenance (O&M) building, meteorological towers, a construction laydown area, and a temporary turbine storage area. The Project also includes an approximately 19-mile, 230-kilovolt (kV) overhead transmission line and a switchyard to connect the Project to the Belfield to Rhame 230-kV transmission line, in Section 29 of Township 137 North, Range 98 West, approximately 19 miles southwest of the city of Dickinson and will transmit power into the Basin Electric Power Cooperative (Basin) transmission system. The switchyard will include a microwave tower, a control building, and four new transmission poles to interconnect to Basin's existing Belfield to Rhame Transmission Line. Temporary crane paths will be used to transport construction cranes in the Project area to erect turbines during construction.

Project infrastructure will cause minimal permanent impacts to floodplains in rural Stark County. Table 1 below lists the infrastructure type, permanent impact acreage, and the location on the attached Map Sheets.

Table 1. Permanent Floodplain Impacts

Infrastructure Type	Permanent Impact acreage	Latitude	Longitude	Map Sheet ¹	FIRM Map Panel ²
Transmission Pole 23	0.0009 (39 square feet)	46.645078	-102.79926	2	700
Transmission Pole 116	0.0009 (39 square feet)	46.644999	-103.064146	6	650
Transmission Pole 118	0.0007 (30.5 square feet)	46.644997	-103.070742	6	650
Transmission Pole 120	0.0009 (39 square feet)	46.646255	-103.072964	6	650
Access Road to Turbine 15	0.0101(440 square feet)	46.642284	-102.894632	2	675

¹ Maps Sheet located in Attachment 2.

² FIRM Maps located in Attachment 3.

2. FLOODPLAIN DETERMINATION: (fill-in the appropriate information)

Map information:

FIRM Date: See Attachment 3 FIRM Maps

FIRM Zone: All floodplains in Project are Zone A

Project is located in:

100-year floodplain (Flood Fringe): yes

*Regulatory Floodway: Not applicable

(*a hydraulic analysis is needed by a registered professional engineer unless determined otherwise by the community, please explain.)

BEF at Development Site: _____ (MSL)

Development will be elevated to: _____ (MSL)

3. DEVELOPMENT ACTIVITIES: (check all that apply)

- Fill placement (fill brought in from outside the floodplain)
- Excavation (where subgrade fill is removed from the floodplain)
- Landscaping (cut and fill, fill borrow and placement)
- Construction or maintenance of a dike/levee/floodwall
- Removal of fill, embankment, or dikes
- Watercourse alterations (river, stream, lake - channel modifications, rip-rap)
- Road, street or bridge construction (new, repair or replacement, realignment)
- Drainage improvements (including culvert work)
- Mining (removal of gravel, rock, fill or other natural materials)
- Installation of utilities (water sewer, pipeline, gas, electric, communications)
- Tower construction (communications tower, antennae etc.)
- Pipeline construction (temporary construction activity)
- Well drilling (water, oil, natural gas etc.)
- Subdivision (new or expansion of existing subdivision)
- Other (please specify) _____

4. ADDITIONAL INFORMATION, PERMITS OR NOTIFICATION:
(Attach additional information)

See **Attachment 1** for additional information.

- Comments or further explanation of work:
- Copies of project description, plans, blueprints, etc.
- Wetlands - will the activity impact identified wetlands? Notify U.S. Army Corps of Engineers?
- Will the development aggravate flooding elsewhere? Notify Water Resource District and/or Neighboring political entity?

5. ELEVATION INFORMATION:

Attach information about the completed project elevations(s) with registered professional engineer or registered land surveyor certifications if part of the project.

The project is anticipated to have minimal impacts to the associated floodplains.

6. ACTION / APPROVAL:

The proposed development is in conformance with applicable community floodplain standards.

Comments or Conditions of the permit: All suggested revisions have been met.

PERMIT IS APPROVED (Conditioned on receiving as-built information/certification)

Signature

Bill Fahlsing
(Floodplain Administrator):

Date:

05/17/16

PLEASE SUBMIT COMPLETED APPLICATION TO:
STARK COUNTY DEPARTMENT OF EMERGENCY SERVICES
BILL FAHLSING
66 MUSEUM DRIVE WEST
DICKINSON, ND 58601
BFAHLSING@STARKCOUNTYND.GOV

Attachment 1:
**Supplement for Section 4. Additional
Information, Permits, or Notification**

4. Additional Information for the Floodplain Permit

- a. Comments or further explanation of work:

Transmission Line Construction

Permanent impacts from the installation of four transmission line poles (Transmission Line Poles 23, 116, 118, and 120) are the placement of the pole and the associated support for the transmission line pole. An estimated 38.5 square feet of permanent disturbance is anticipated for each transmission line pole. The poles will be installed at grade with no anticipated change in base elevation.

Access Road Construction

The access road to Turbine 15 (Sheet Map 3), will generally be built at grade, but may require a culvert where the new access road meets the existing county road. The permanent access road will be 16 feet wide and will consist of compacted soil, capped with rock for approximately 6 inches and then covered in gravel or other appropriate local material. **A culvert to eliminate impacts to the floodplain will be installed if, during access road construction design, it is determined there would be an impact to the floodplain.**

- b. Copies of project description, plans, blueprints, etc.

The project description is provided in Section 1 of the permit application. Attached are figures and FIRM maps of the project area.

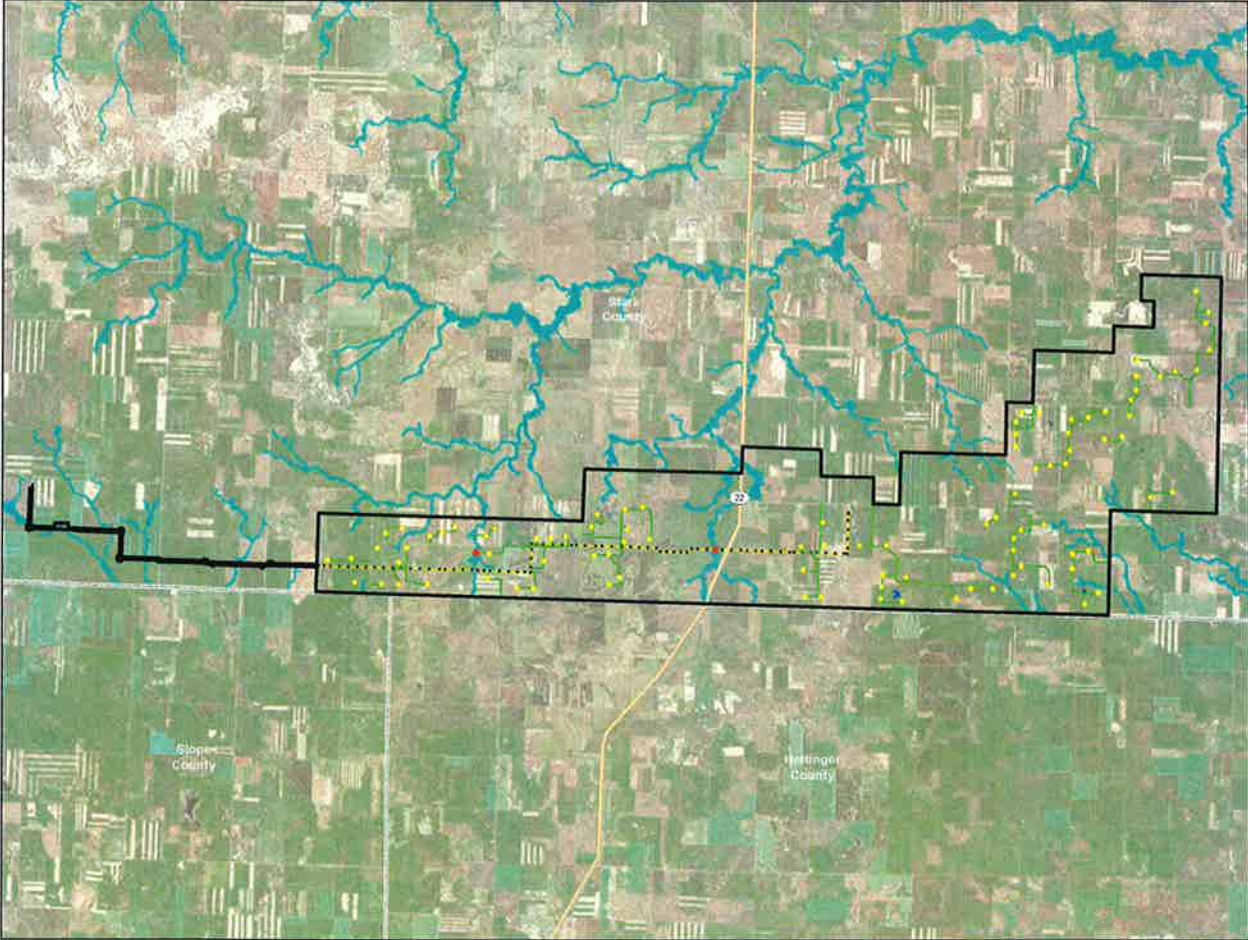
- c. Wetlands – Will the activity impact identified wetlands? Notify the U.S. Army Corps of Engineers?

The Project is anticipated to have temporary impacts associated with transmission line poles, collector lines, the construction of the access road to Turbine 15, and crane paths. There is also anticipated permanent impacts associated with three transmission line poles. The temporary and permanent impacts from the Project would be less than the minimum permitting requirement from the U.S. Army Corps of Engineers. The Project has had several informal discussions with the USACE regarding permitting requirements for the Project resulting in a no formal permit requirement determination. The Project will be operating under the USACE Nationwide Permit 12 – Utility Lines and have agreed to abide by the general and regional conditions of the permit.

- d. Will the development aggravate flooding elsewhere? Notify Water Resource District and/or Neighboring political entity?

The Project is anticipated to have very minimal impacts on flooding. Cumulatively, the project will have 0.0135 acres (588.06 square feet) of permanent impact to floodplains. Notification of neighboring water resource districts or political entities has not been requested.

Attachment 2: Map Sheets



Permanent Project Impacts in 100-year Floodplain

Brady Wind Energy Center
Stark County, North Dakota

- Legend**
- Project Area
 - Proposed Turbine
 - Proposed Transmission Poles
 - Proposed Transmission Line
 - Proposed Service Road
 - 100-year Floodplain (Zone A)
 - Delineated Wetland
 - Permanent Impacts in Floodplain











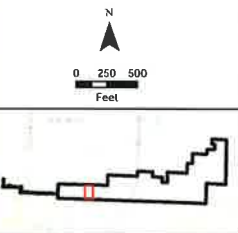


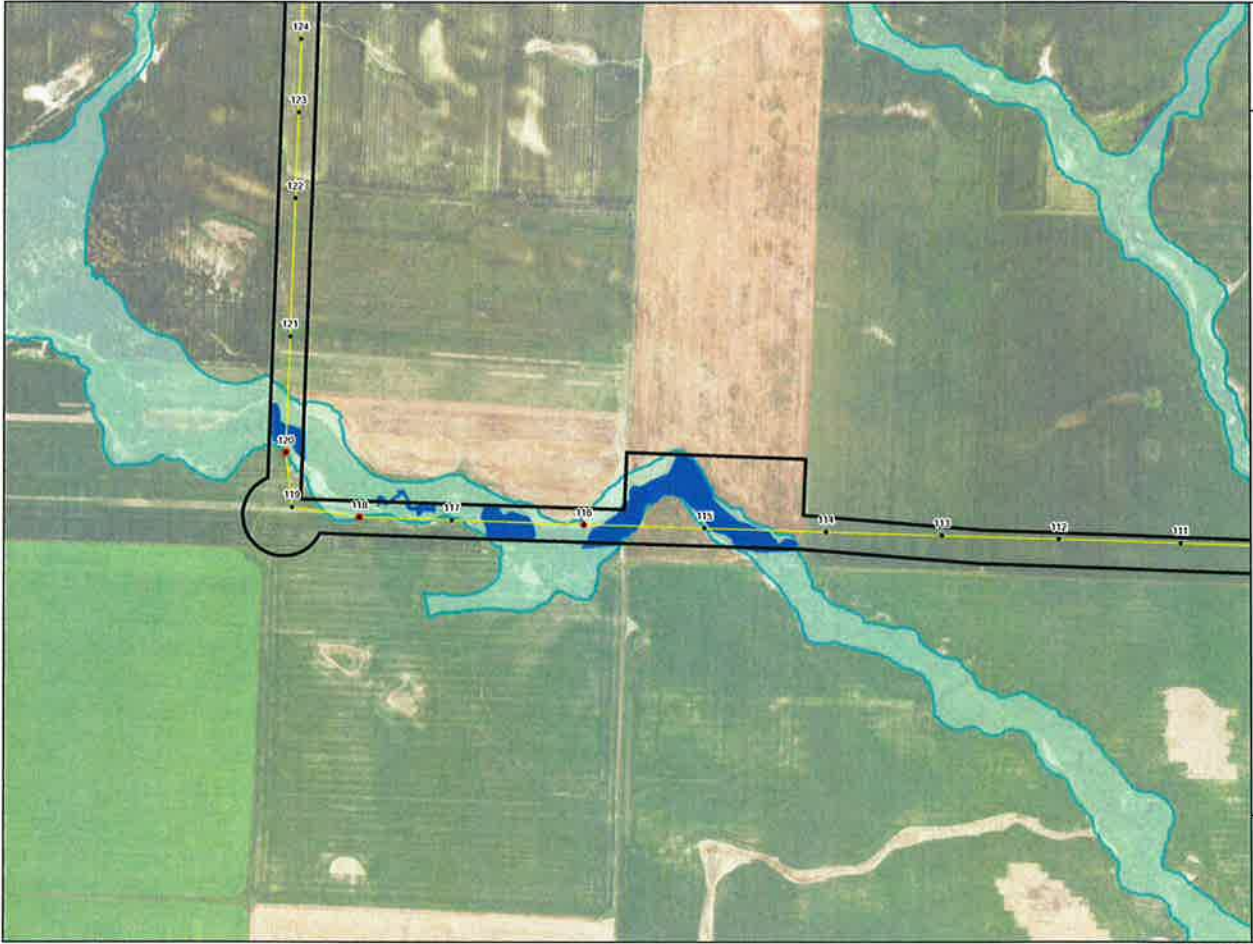


Permanent Project Impacts in 100-year Floodplain
 Sheet 2 of 3

Brady Wind Energy Center
 Stark County, North Dakota

- Legend**
-  Project Area
 -  Proposed Turbine
 -  Proposed Transmission Poles
 -  Proposed Transmission Line
 -  Proposed Service Roads
 -  100-year Floodplain (Zone A)
 -  Delineated Wetland
 -  Permanent Impacts in Floodplain

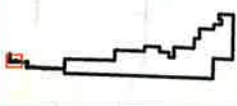
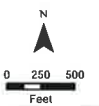




Permanent Project Impacts in 100-year Floodplain
Sheet 3 of 3

Brady Wind Energy Center
Stark County, North Dakota

- Legend**
- Project Area
 - Proposed Turbine
 - Proposed Transmission Poles
 - Proposed Transmission Line
 - Proposed Service Roads
 - 100-year Floodplain (Zone A)
 - Delineated Wetland
 - Permanent Impacts in Floodplain



**Attachment 3:
FIRM Maps**

NOTES TO USERS

The map is for use in determining flood insurance rates. It is not to be used for any other purpose. Flood insurance rates are based on the information shown on this map. The information shown on this map is based on the information provided to the Federal Insurance Administration by the insurance companies. The information shown on this map is not to be used for any other purpose. Flood insurance rates are based on the information shown on this map. The information shown on this map is based on the information provided to the Federal Insurance Administration by the insurance companies. The information shown on this map is not to be used for any other purpose.

Current Flood Insurance Rates: The current flood insurance rates are based on the information shown on this map. The information shown on this map is based on the information provided to the Federal Insurance Administration by the insurance companies. The information shown on this map is not to be used for any other purpose.

Special Flood Hazard Areas: The special flood hazard areas are shown on this map. The information shown on this map is based on the information provided to the Federal Insurance Administration by the insurance companies. The information shown on this map is not to be used for any other purpose.

Map Accuracy: The map is accurate to the best of our knowledge. However, we do not warrant the accuracy of the information shown on this map. The information shown on this map is based on the information provided to the Federal Insurance Administration by the insurance companies. The information shown on this map is not to be used for any other purpose.

Contact Information: If you have any questions about this map, please contact the Federal Insurance Administration. The information shown on this map is based on the information provided to the Federal Insurance Administration by the insurance companies. The information shown on this map is not to be used for any other purpose.



LEGEND

- Special Flood Hazard Areas:**
 - Zone A:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone B:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone C:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone D:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone E:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone F:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone G:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone H:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone I:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone J:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone K:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone L:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone M:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone N:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone O:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone P:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone Q:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone R:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone S:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone T:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone U:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone V:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone W:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone X:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone Y:** Special Flood Hazard Area (1% Annual Chance Flood)
 - Zone Z:** Special Flood Hazard Area (1% Annual Chance Flood)
- Other Flooded Areas:**
 - Zone AA:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AB:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AC:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AD:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AE:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AF:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AG:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AH:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AI:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AJ:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AK:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AL:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AM:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AN:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AO:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AP:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AQ:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AR:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AS:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AT:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AU:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AV:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AW:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AX:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AY:** Other Flooded Area (1% Annual Chance Flood)
 - Zone AZ:** Other Flooded Area (1% Annual Chance Flood)
- Other Areas:**
 - Zone BA:** Other Area (1% Annual Chance Flood)
 - Zone BB:** Other Area (1% Annual Chance Flood)
 - Zone BC:** Other Area (1% Annual Chance Flood)
 - Zone BD:** Other Area (1% Annual Chance Flood)
 - Zone BE:** Other Area (1% Annual Chance Flood)
 - Zone BF:** Other Area (1% Annual Chance Flood)
 - Zone BG:** Other Area (1% Annual Chance Flood)
 - Zone BH:** Other Area (1% Annual Chance Flood)
 - Zone BI:** Other Area (1% Annual Chance Flood)
 - Zone BJ:** Other Area (1% Annual Chance Flood)
 - Zone BK:** Other Area (1% Annual Chance Flood)
 - Zone BL:** Other Area (1% Annual Chance Flood)
 - Zone BM:** Other Area (1% Annual Chance Flood)
 - Zone BN:** Other Area (1% Annual Chance Flood)
 - Zone BO:** Other Area (1% Annual Chance Flood)
 - Zone BP:** Other Area (1% Annual Chance Flood)
 - Zone BQ:** Other Area (1% Annual Chance Flood)
 - Zone BR:** Other Area (1% Annual Chance Flood)
 - Zone BS:** Other Area (1% Annual Chance Flood)
 - Zone BT:** Other Area (1% Annual Chance Flood)
 - Zone BU:** Other Area (1% Annual Chance Flood)
 - Zone BV:** Other Area (1% Annual Chance Flood)
 - Zone BW:** Other Area (1% Annual Chance Flood)
 - Zone BX:** Other Area (1% Annual Chance Flood)
 - Zone BY:** Other Area (1% Annual Chance Flood)
 - Zone BZ:** Other Area (1% Annual Chance Flood)

PANEL 0575

FIRM FLOOD INSURANCE RATE MAP

STARK COUNTY, NORTH DAKOTA

PANEL 0575 OF 058

MAP NUMBER: 0580000575

EFFECTIVE DATE: NOVEMBER 4, 2010

INSURANCE INFORMATION

CONTACT INFORMATION

AGENCY INFORMATION

