



## North Carolina Department of Administration

Pat McCrory, Governor

Bill Daughtride, Jr., Secretary

April 20, 2015

Ms. Gail Mount  
North Carolina Department of Commerce  
Utilities Commission  
4325 Mail Service Center  
Raleigh, North Carolina 27699-4325

**Re: SCH File # 15-E-4600-0478; Application of Red Cedar Solar, LLC for Certificate to construct a 3 MW Solar Photovoltaic Electric Generating Facility in Guilford Co. Docket #SP-5240 Sub 0.**

Dear Ms. Mount:

The above referenced environmental impact information has been reviewed through the State Clearinghouse under the provisions of the North Carolina Environmental Policy Act.

Attached to this letter are comments made in the review of this document. Because of the nature of the comments, it has been determined that no further State Clearinghouse review action on your part is needed for compliance with the North Carolina Environmental Policy Act. The attached comments should be taken into consideration in project development.

Sincerely,

A handwritten signature in cursive script that reads "Crystal Best".

Crystal Best  
State Environmental Review Clearinghouse

Attachments

cc: Region G

**Mailing Address:**  
1301 Mail Service Center  
Raleigh, NC 27699-1301

**Telephone:** (919)807-2425  
Fax (919)733-9571  
State Courier #51-01-00  
e-mail [state.clearinghouse@doa.nc.gov](mailto:state.clearinghouse@doa.nc.gov)

**Location Address:**  
116 West Jones Street  
Raleigh, North Carolina




North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

Donald R. van der Vaart  
Secretary

MEMORANDUM

To: Crystal Best  
State Clearinghouse

From: Lyn Hardison   
Division of Environmental Assistance and Customer Service  
Environmental Assistance and Project Review Coordinator

RE: 15-0478  
Environmental Review –Application of Red Cedar Solar, LLC for the Certificate to  
construct a 3 MW Solar Photovoltaic Electric Generating Facility  
Guilford County

Date: April 9, 2015

The Department of Environment and Natural Resources has reviewed the proposal for the referenced project. Based on the information provided, several of our agencies have identified permits that may be required and offered some valuable guidance to minimize impacts to the natural resources, aquatic and terrestrial wildlife resources within the project area. The comments are attached for the applicant review.

If the applicant has any questions pertaining to NCDENR permitting processes, please suggest to the applicant to contact David Lee, Permit Assistance Coordinator, in the Department's Raleigh Regional Office, (919)791-4200 for more permitting assistance. The proposed project is located within his geographic working territory.

Thank you for the opportunity to respond.

Attachments



## ◆ North Carolina Wildlife Resources Commission ◆

Gordon Myers, Executive Director

### MEMORANDUM

TO: Lyn Hardison, Environmental Assistance and SEPA Coordinator  
NCDENR Division of Environmental Assistance and Customer Services

FROM: Shari L. Bryant, Western Piedmont Coordinator *Shari L. Bryant*  
Habitat Conservation

DATE: 23 March 2015

SUBJECT: Application of Red Cedar Solar, LLC for a Certificate of Public Convenience and Necessity to Construct a 3 MW Solar Photovoltaic Electric Generating Facility, Guilford County. Docket No. SP-5240, Sub 0. DENR Project No. 15-0478

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the subject document and we are familiar with the habitat values of the area. Our comments are provided in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667e), and North Carolina General Statutes (G.S. 113-131 et seq.).

The applicant proposes to construct a photovoltaic solar facility. The facility will consist of solar modules mounted to the ground at a fixed tilt using piers and purlins. The system will use inverters and be connected to the grid operated by Duke Energy Carolinas. The facility will be located on Red Cedar Road in Gibsonville.

The site drains to Buffalo Creek in the Cape Fear River basin. We offer the following general recommendations to minimize impacts to aquatic and terrestrial wildlife resources.

1. Maintain or establish a minimum 100-foot undisturbed, native forested buffer along each side of perennial streams and 50-foot undisturbed, native forested buffer along each side of intermittent streams and wetlands. Forested riparian buffers provide habitat areas for aquatic and terrestrial wildlife species and travel corridors for terrestrial wildlife. In addition, forested riparian buffers protect water quality by stabilizing stream banks and filtering stormwater runoff.
2. Avoid or minimize impacts to wetlands during construction. In addition to providing wildlife habitat, wetland areas perform important functions of flood control and water quality protection. U.S. Army Corps of Engineers Section 404 permits and N.C. Division of Water Resources Section 401 Certifications are needed for any impacts to jurisdictional streams or wetlands. Temporarily disturbed wetland areas should be returned to original soils and contours, and reseeded with annual small grains

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**Mailing Address:** Division of Inland Fisheries • 1721 Mail Service Center • Raleigh, NC 27699-1721

**Telephone:** (919) 707-0220 • **Fax:** (919) 707-0028

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Apr 21 2015

23 March 2015  
Red Cedar Solar Facility  
DENR Project No. 15-0478

- appropriate for the season (e.g. oats, millet, rye, or wheat) and should be allowed to revert to natural wetland vegetation.
3. If additional overhead transmission lines will be installed, then measures to minimize impacts to birds should be implemented. These can include increasing line visibility, insulating wires to cover exposed connections, and increasing the distance between wires so no contact with ground or other energized wire can be made. For more information see <http://www.fws.gov/birds/documents/powerlines.pdf>.
  4. Consider establishing vegetative cover on the site that is beneficial to wildlife such as native warm season grasses. We refer the applicant to Jason Allen, District Wildlife Biologist, at (336) 524-9801 or [jason.allen@ncwildlife.org](mailto:jason.allen@ncwildlife.org) for information on developing a site-specific vegetation plan. Although a site-specific plan is preferred, for general information on developing vegetative cover on disturbed soils, please see the attached *Seed Mixes for Re-vegetating Disturbed Sites*.
  5. If site and/or transmission line maintenance is needed, avoid mowing between April 1 and October 1 to minimize impacts to nesting wildlife. We suggest a maintenance schedule that incorporates a portion of the area (e.g., one-third of the area) each year. Pesticides, fertilizers, and other chemicals should not be used in wetland areas or near streams.
  6. Where feasible, consider establishing grassland habitats on the site. These are drought tolerant and require minimal mowing maintenance once established. Grasslands provide habitat for migratory and resident birds and small mammals particularly if mowing is done only in late winter/early spring after winter cover needs are reduced and before nesting occurs. For more information on grassland habitats and establishment, please contact Laura Fogo, U.S. Fish and Wildlife Service, at (910) 695-3323 or [laura\\_fogo@fws.gov](mailto:laura_fogo@fws.gov).
  7. If pesticides or chemicals will be used for site maintenance, then stormwater runoff from the site should be directed to bio-retention areas prior to discharge to streams or wetlands to provide additional protection for water quality and aquatic and terrestrial wildlife habitats.
  8. Sediment and erosion control measures should be installed prior to any land clearing or construction. These measures should be routinely inspected and properly maintained. Excessive silt and sediment loads can have numerous detrimental effects on aquatic resources including destruction of spawning habitat, suffocation of eggs, and clogging of gills of aquatic species.
  9. Measures to mitigate secondary and cumulative impacts can be found in NCWRC's *Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality* (August 2002; [http://www.ncwildlife.org/Portals/0/Conserving/documents/2002\\_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf](http://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf)).

Thank you for the opportunity to comment on this project. If we can be of further assistance, please contact our office at (336) 449-7625 or [shari.bryant@ncwildlife.org](mailto:shari.bryant@ncwildlife.org).

cc: Laura Fogo, USFWS  
Kathy Matthews, USFWS  
Jason Allen, NCWRC

Attachment: Seed Mixes for Re-vegetating Disturbed Sites

## Seed Mixes for Re-vegetating Disturbed Sites

### Basic Mix

Oats (Mar-Jun), Wheat (Jul-Nov), or Rye Grain (Dec-Feb)	1-2 bags / acre	~ \$ 5-10 bag
Red Clover <i>Trifolium pratense</i>	10 lbs / acre	~ \$ 3 / lb
Creeping Red Fescue <i>Festuca rubra</i>	20 lbs / acre	~ \$ 2-3 / lb

- The Basic Mix can be sown on disturbed sites in the mountains and upper piedmont year round but spring or fall seeding will result in a better stand. **It is important to use all of the components of the Basic Mix. The cover crop grain and legume provide rapid green-up while the creeping red fescue is developing.** These components can be obtained locally.
- Grains like oats, wheat, and rye may be sold by weight (pounds) or by volume (bushels). To simplify things, this mix recommends 1-2 BAGS of grain rather than pounds or bushels. With this mix, 1 bag or about 50 – 60 lbs per acre should be adequate for most sites, but where slope or soil conditions warrant, increase grain amounts to 100 – 120 lbs (use 2 bags).
- The perennial grass will establish within the first year and is the key to good site stabilization. Creeping red fescue has a wide range of adaptation when used for erosion control along roads and highways; cuts, fills, and other disturbed areas; and for stream and channel bank stabilization. It thrives in sun or shade, and is relatively drought-resistant after establishment.

For permanent seeding of harsh dry sites, Hard Fescue <i>Festuca brevipila</i> (syn. <i>trachyphylla</i> ) or Sheep Fescue <i>Festuca ovina</i> can be added to the Basic Mix	10 lbs / acre	~ \$ 3 / lb
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### Application Notes

- Disturbed sites with loose soils can usually be sown without extensive seedbed preparation if seeded as soon as the other work is completed.
- Where necessary, prepare seedbed with conventional farm equipment (tractor and disk), or the soil surface can be bladed and then tracked with a bulldozer. Hydro-seeding can be used with the Basic Mix for slopes where equipment access is difficult.
- Red fescue is adapted to sandy and acid soils so extensive soil amendments are usually not needed. On poor and subsoil sites, a low nitrogen fertilizer such as 5-10-10 may be required.
- If required, apply any necessary soil amendments, then drill or broadcast the seed mix.
- The larger cover crop grains can be sown separately first and covered lightly to prevent loss of seed from wildlife such as turkeys and doves.
- The rest of the seed mix should then be sown, but not covered with soil. It is better to firm the small seed into the soil than to try to cover it.
- Culti-pack conventional seedbeds to ensure good seed-to-soil contact. Tracked sites will fill in on their own from rainfall.
- Apply straw mulch at a minimum of 15 bales per acre to help enhance soil moisture as well as hold the soil in place until the seed germinates. Use higher rates as site conditions warrant.

23 March 2015  
 Red Cedar Solar Facility  
 DENR Project No. 15-0478

- If needed, biodegradable natural fiber matting is recommended over plastic matting or matting that contains strands of plastic that can entrap small animals. Install last, over the seed and straw.
- Monitor the site until the perennial grass component is fully established. Mature stands of the Basic Mix are short-statured and will not require mowing. The seeded mix should persist for many years, but will eventually yield to developing successional species in the seed bank.

#### Adding Native Species

- Native wildflowers and grasses can be added to the Basic Mix to beautify and diversify the site, and provide food and cover for wildlife such as wild turkey, bobwhite quail, and songbirds.
- The following table contains native species that are easy, proven performers that have been used successfully on stream restoration areas as well as drier upland sites. The four wildflowers will come on well the first year; the three grasses may take two to three years to develop good sized clumps.
- These native seeds are reasonably priced and can be ordered from a reputable seed dealer. Using all seven will provide maximum diversity as well as added site stabilization but any additions will be beneficial. For a list of sources, please contact Shari Bryant at (336) 449-7625 or [shari.bryant@ncwildlife.org](mailto:shari.bryant@ncwildlife.org).
- Mixes with native seed can be culti-packed or tracked in with a bulldozer; native seeds will not germinate if suspended in hydro-mulch therefore hydro-seeding is not recommended.

Note: when adding native *Panicum* grass seed, sow the mix in late fall, winter, or early spring to subject the seed to cool, moist soil conditions necessary to break seed dormancy. Sowing during the warmer months may delay *Panicum* germination until the following year, and some seed may be lost in the interim. Mixes with mainly wildflowers can be sown in early fall.

- For information on each native species listed here, visit <http://plants.usda.gov/>; type in the scientific name in the search box. Note: adding natives will increase the height of the resulting stands, providing good wildlife habitat. Frequent mowing destroys food and cover and is not recommended. Mow once every few years, in late winter, only if absolutely necessary to remove encroaching woody vegetation.

#### Native species – add to Basic Mix at 1-2 lbs / acre

Lanced-leaved Coreopsis <i>Coreopsis lanceolata</i> – height 8" to 3'	~ \$ 14 / lb
Deertongue <i>Dicanthelium (Panicum) clandestinum</i> 'Tioga' – height 1 to 3'	~ \$ 12 / lb
Black Eyed Susan <i>Rudbeckia hirta</i> – height 1 to 3'	~ \$ 16 / lb
Showy Partridge Pea <i>Chamaecrista (Cassia) fasciculata</i> – height 2 to 3'	~ \$ 14 / lb
Showy Tickseed <i>Bidens aristosa</i> – height 3 to 4'	~ \$ 16 / lb
Switchgrass <i>Panicum virgatum</i> 'Blackwell', 'Cave-in-Rock', 'Kanlow' – height 4 to 6'	~ \$ 8 / lb
Big Bluestem <i>Andropogon gerardii</i> – height 4 to 6'	~ \$ 10 / lb

NCWRC/2010 Rev 5/12



State of North Carolina  
Department of Environment and Natural Resources  
INTERGOVERNMENTAL REVIEW - PROJECT COMMENTS

Reviewing Office: WSRO

Project Number 15-0478 Due Date: 4/6/2015  
County Guilford

After review of this project it has been determined that the ENR permit(s) and/or approvals indicated may need to be obtained in order for this project to comply with North Carolina Law. Questions regarding these permits should be addressed to the Regional Office indicated on the reverse of the form. All applications, information and guidelines relative to these plans and permits are available from the same Regional Office.

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
<input type="checkbox"/>	Permit to construct & operate wastewater treatment facilities, sewer system extensions & sewer systems not discharging into state surface waters.	Application 90 days before begin construction or award of construction contracts. On-site inspection. Post-application technical conference usual.	30 days (90 days)
<input type="checkbox"/>	NPDES - permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters.	Application 180 days before begin activity. On-site inspection. Pre-application conference usual. Additionally, obtain permit to construct wastewater treatment facility-granted after NPDES. Reply time, 30 days after receipt of plans or issue of NPDES permit-whichever is later.	90-120 days (N/A)
<input type="checkbox"/>	Water Use Permit	Pre-application technical conference usually necessary	30 days (N/A)
<input type="checkbox"/>	Well Construction Permit	Complete application must be received and permit issued prior to the installation of a well.	7 days (15 days)
<input type="checkbox"/>	Dredge and Fill Permit	Application copy must be served on each adjacent riparian property owner. On-site inspection. Pre-application conference usual. Filling may require Easement to Fill from N.C. Department of Administration and Federal Dredge and Fill Permit.	55 days (90 days)
<input type="checkbox"/>	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.0100 thru 2Q.0300)	Application must be submitted and permit received prior to construction and operation of the source. If a permit is required in an area without local zoning, then there are additional requirements and timelines (2Q.0113).	90 days
<input type="checkbox"/>	Permit to construct & operate Transportation Facility as per 15A NCAC (2D.0800, 2Q.0601)	Application must be submitted at least 90 days prior to construction or modification of the source.	90 days
<input checked="" type="checkbox"/>	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900	N/A	60 days (90 days)
<input type="checkbox"/>	Demolition or renovations of structures containing asbestos material must be in compliance with 15 A NCAC 20.1110 (a) (1) which requires notification and removal prior to demolition. Contact Asbestos Control Group 919-707-5950.		
<input type="checkbox"/>	Complex Source Permit required under 15 A NCAC 2D.0800		
<input checked="" type="checkbox"/>	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres to be disturbed. Plan filed with proper Regional Office (Land Quality Section) At least 30 days before beginning activity. A fee of \$65 for the first acre or any part of an acre. An express review option is available with additional fees.		20 days (30 days)
<input type="checkbox"/>	Sedimentation and erosion control must be addressed in accordance with NCDOT's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable stormwater conveyances and outlets.		(30 days)
<input type="checkbox"/>	Mining Permit	On-site inspection usual. Surety bond filed with ENR Bond amount varies with type mine and number of acres of affected land. Any are mined greater than one acre must be permitted. The appropriate bond must be received before the permit can be issued.	30 days (60 days)
<input type="checkbox"/>	North Carolina Burning permit	On-site inspection by N.C. Division Forest Resources if permit exceeds 4 days	1 day (N/A)
<input type="checkbox"/>	Special Ground Clearance Burning Permit - 22 counties in coastal N.C. with organic soils	On-site inspection by N.C. Division Forest Resources required "if more than five acres of ground clearing activities are involved. Inspections should be requested at least ten days before actual burn is planned."	1 day (N/A)
<input type="checkbox"/>	Oil Refining Facilities	N/A	90-120 days (N/A)
<input type="checkbox"/>	Dam Safety Permit	If permit required, application 60 days before begin construction. Applicant must hire N.C. qualified engineer to: prepare plans, inspect construction, certify construction is according to ENR approved plans. May also require permit under mosquito control program. And a 404 permit from Corps of Engineers. An inspection of site is necessary to verify Hazard Classification. A minimum fee of \$200.00 must accompany the application. An additional processing fee based on a percentage of the total project cost will be required upon completion.	30 days (60 days)

February 11, 2015

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Apr 21 2015

County <u>Guilford</u>		Project Number: <u>15-0478</u>	Due Date: <u>4/6/2015</u>	Normal Process Time (statutory time limit)
PERMITS		SPECIAL APPLICATION PROCEDURES or REQUIREMENTS		
<input type="checkbox"/>	Permit to drill exploratory oil or gas well	File surety bond of \$5,000 with ENR running to State of NC conditional that any well opened by drill operator shall, upon abandonment, be plugged according to ENR rules and regulations.		10 days N/A
<input type="checkbox"/>	Geophysical Exploration Permit	Application filed with ENR at least 10 days prior to issue of permit. Application by letter. No standard application form.		10 days N/A
<input type="checkbox"/>	State Lakes Construction Permit	Application fee based on structure size is charged. Must include descriptions & drawings of structure & proof of ownership of riparian property.		15-20 days N/A
<input type="checkbox"/>	401 Water Quality Certification	N/A		60 days (130 days)
<input type="checkbox"/>	CAMA Permit for MAJOR development	\$250.00 fee must accompany application		55 days (150 days)
<input type="checkbox"/>	CAMA Permit for MINOR development	\$50.00 fee must accompany application		22 days (25 days)
<input type="checkbox"/>	Several geodetic monuments are located in or near the project area. If any monument needs to be moved or destroyed, please notify: N.C. Geodetic Survey, Box 27687 Raleigh, NC 27611			
<input type="checkbox"/>	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.			
<input checked="" type="checkbox"/>	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.			
<input type="checkbox"/>	Compliance with 15A NCAC 2H 1000 (Coastal Stormwater Rules) is required.			45 days (N/A)
<input type="checkbox"/>	Catawba, Jordan Lake, Randalman, Tar Pamlico or Neuse Riparian Buffer Rules required.			
<input type="checkbox"/>	Plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq. Plans and specifications should be submitted to 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. All public water supply systems must comply with state and federal drinking water monitoring requirements. For more information, contact the Public Water Supply Section, (919) 707-9100.			30 days
<input type="checkbox"/>	If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Water Resources/Public Water Supply Section at 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. For more information, contact the Public Water Supply Section, (919) 707-9100.			30 days

Other comments (attach additional pages as necessary, being certain to cite comment authority)

Division	Initials	No comment	Comments	Date Review
DAQ	LDE	<input type="checkbox"/>	see above	4/6/15
DWR-WQROS (Aquifer & Surface)		<input type="checkbox"/>		/ / / /
DWR-PWS	EAH	<input checked="" type="checkbox"/>	NA - project is not scheduled for review by regional PWSS	3/18/15
DEMLR (LQ & SW)	MEG	<input checked="" type="checkbox"/>	See Above	3/19/15
DWM - UST	CLK	<input type="checkbox"/>	See Above	3/27/15

## REGIONAL OFFICES

Questions regarding these permits should be addressed to the Regional Office marked below.

☐ **Asheville Regional Office**  
2090 US Highway 70  
Swannanoa, NC 28778  
(828) 296-4500

☐ **Mooreville Regional Office**  
610 East Center Avenue, Suite 301  
Mooreville, NC 28115  
(704) 663-1699

☐ **Wilmington Regional Office**  
127 Cardinal Drive Extension  
Wilmington, NC 28405  
(910) 796-7215

☐ **Fayetteville Regional Office**  
225 North Green Street, Suite 714  
Fayetteville, NC 28301-5043  
(910) 433-3300

☐ **Raleigh Regional Office**  
3800 Barrett Drive, Suite 101  
Raleigh, NC 27609  
(919) 791-4200

☒ **Winston-Salem Regional Office**  
450 West Hanes Mill Road, Suite 300  
Winston-Salem, NC 27105  
(336) 771-9800

☐ **Washington Regional Office**  
943 Washington Square Mall  
Washington, NC 27889  
(252) 946-6481



NORTH CAROLINA STATE CLEARINGHOUSE  
DEPARTMENT OF ADMINISTRATION  
INTERGOVERNMENTAL REVIEW

COUNTY: GUILFORD

H11: ENERGY RELATED  
FACILITIES/ACTIVITIES

STATE NUMBER: 15-E-4600-0478  
DATE RECEIVED: 03/11/2015  
AGENCY RESPONSE: 04/06/2015  
REVIEW CLOSED: 04/10/2015

MS CAROLYN PENNY  
CLEARINGHOUSE COORDINATOR  
CC&PS - DIV OF EMERGENCY MANAGEMENT  
FLOODPLAIN MANAGEMENT PROGRAM  
MSC # 4719  
RALEIGH NC

MAR 13 2015

**REVIEW DISTRIBUTION**

CC&PS - DIV OF EMERGENCY MANAGEMENT  
DENR LEGISLATIVE AFFAIRS  
DEPT OF AGRICULTURE  
DEPT OF CULTURAL RESOURCES  
DEPT OF TRANSPORTATION  
PIEDMONT TRIAD REGIONAL COUNCIL

**PROJECT INFORMATION**

APPLICANT: N.C. Department of Commerce  
TYPE: State Environmental Policy Act  
Environmental Review

DESC: Application of Red Cedar Solar, LLC for Certificate to construct a 3 MW Solar Photovoltaic Electric Generating Facility in Guilford Co. Docket #SP-5240 Sub 0.  
- View document at  
<http://starwl.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type SP-5240 Sub 0 in the Docket Number search line.

Located at 4290 Red Cedar Road, Gibsonville, NC

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301.

If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED: ☐ NO COMMENT ☒ COMMENTS ATTACHED

SIGNED BY:

*Jennifer W. Fluv*

DATE:

3/27/15



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Apr 21 2015



# North Carolina Department of Public Safety

## Emergency Management

Pat McCrory, Governor  
Frank L. Perry, Secretary

Michael A. Sprayberry, Director

March 27, 2015

State Clearinghouse  
N.C. Department of Administration  
1301 Mail Service Center  
Raleigh, North Carolina 27699-1301

Subject: Intergovernmental Review State Number: 15-E-4600-0478  
Red Cedar Solar, LLC, Guilford County

As requested by the North Carolina State Clearinghouse, the North Carolina Department of Public Safety Division of Emergency Management Risk Management reviewed the proposed project listed above and offers the following comments:

- 1) The project site is located in unincorporated Guilford County. Guilford County participates in the National Flood Insurance Program and enforces a Flood Damage Prevention Ordinance that requires a Floodplain Development Permit be issued for all development located in the Special Flood Hazard Area (SFHA) within its jurisdiction. Please ensure Guilford County's Floodplain Administrator reviews and issues permits for each part of the Red Cedar Solar, LLC Photovoltaic Electric Generating Facility within a SFHA.
- 2) The site outlined in the application encroaches on the SFHA of Buffalo Creek. Please see Flood Insurance Rate Map Panel 8807. Any grading, fill or placement of equipment or materials in the SFHA will require a floodplain development permit issued by Guilford County.
- 3) It is not clear from the documentation provided whether the applicant proposed encroachment within the floodway of Buffalo Creek. If so, a hydraulic analysis shall be performed to determine the impact on flood levels during the base flood discharge due to the proposed construction. An increase in flood levels will require approval of a Conditional Letter of Map Revision prior to construction. No structures shall be impacted by the increase in flood levels. If there are no increases in flood levels, a "No-Rise" study and certification will be required prior to construction.
- 4) All structures and utilities should be protected to the regulatory flood protection elevation as described in Guilford County's ordinance and 44 CFR 60.3.

**MAILING ADDRESS:**  
4218 Mail Service Center  
Raleigh NC 27699-4218  
[www.ncem.org](http://www.ncem.org)



**GTM OFFICE LOCATION:**  
4105 Reedy Creek Road  
Raleigh, NC 27607  
Telephone: (919) 825-2341  
Fax: (919) 825-0408

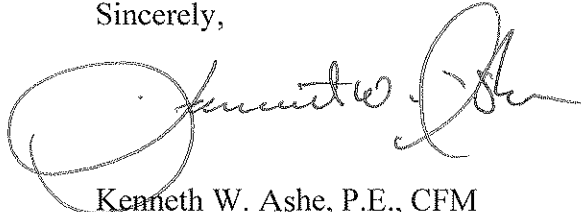
*An Equal Opportunity Employer*

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Apr 21 2015

Thank you for your cooperation and consideration. If you have any questions concerning the above comments, please contact Dan Brubaker, P.E., CFM, the NC NFIP Engineer at (919) 825-2300, by email at [dan.brubaker@ncdps.gov](mailto:dan.brubaker@ncdps.gov) or at the address shown on the footer of this document.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth W. Ashe". The signature is fluid and cursive, with a large initial "K" and "A".

Kenneth W. Ashe, P.E., CFM  
Assistant Director  
Risk Management

cc: John Gerber, NFIP State Coordinator  
Dan Brubaker, NFIP Engineer

Frank Park, Chief Plans Engineer, Guilford County

File

*Verm*

NORTH CAROLINA STATE CLEARINGHOUSE  
DEPARTMENT OF ADMINISTRATION  
INTERGOVERNMENTAL REVIEW

*Wayne Davis*

COUNTY: GUILFORD

*2.00pm*

H11: ENERGY RELATED  
FACILITIES/ACTIVITIES

STATE NUMBER: 15-E-4600-0478  
DATE RECEIVED: 03/11/2015  
AGENCY RESPONSE: 04/06/2015  
REVIEW CLOSED: 04/10/2015

MS CARRIE ATKINSON  
CLEARINGHOUSE COORDINATOR  
DEPT OF TRANSPORTATION  
STATEWIDE PLANNING - MSC #1554  
RALEIGH NC

REVIEW DISTRIBUTION

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DEPT OF AGRICULTURE  
DEPT OF CULTURAL RESOURCES  
DEPT OF TRANSPORTATION  
PIEDMONT TRIAD REGIONAL COUNCIL

PROJECT INFORMATION

APPLICANT: N.C. Department of Commerce  
TYPE: State Environmental Policy Act  
Environmental Review

DESC: Application of Red Cedar Solar, LLC for Certificate to construct a 3 MW Solar Photovoltaic Electric Generating Facility in Guilford Co. Docket #SP-5240 Sub 0.  
- View document at  
<http://starwl.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type SP-5240 Sub 0 in the Docket Number search line.

Located at 4290 Red Cedar Road, Gibsonville, NC

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301.

If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED:



NO COMMENT



COMMENTS ATTACHED

SIGNED BY:

*Carrie Atkinson*

DATE:

*3/20/15*



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Apr 21 2015

NORTH CAROLINA STATE CLEARINGHOUSE  
DEPARTMENT OF ADMINISTRATION  
INTERGOVERNMENTAL REVIEW

COUNTY: GUILFORD

H11: ENERGY RELATED  
FACILITIES/ACTIVITIES

STATE NUMBER: 15-E-4600-0478  
DATE RECEIVED: 03/11/2015  
AGENCY RESPONSE: 04/06/2015  
REVIEW CLOSED: 04/10/2015

MS ELIZABETH HEATH  
CLEARINGHOUSE COORDINATOR  
DEPT OF AGRICULTURE  
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RALEIGH NC

REVIEW DISTRIBUTION

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DEPT OF AGRICULTURE  
DEPT OF CULTURAL RESOURCES  
DEPT OF TRANSPORTATION  
PIEDMONT TRIAD REGIONAL COUNCIL

PROJECT INFORMATION

APPLICANT: N.C. Department of Commerce  
TYPE: State Environmental Policy Act  
Environmental Review

DESC: Application of Red Cedar Solar, LLC for Certificate to construct a 3 MW Solar Photovoltaic Electric Generating Facility in Guilford Co. Docket #SP-5240 Sub 0.  
- View document at  
<http://starwl.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type SP-5240 Sub 0 in the Docket Number search line.

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SIGNED BY:

Charlotte Homena

DATE:

3/19/15



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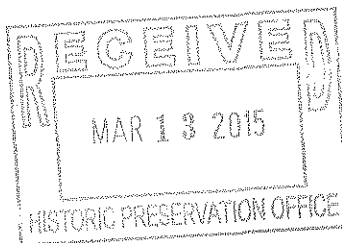


NORTH CAROLINA STATE CLEARINGHOUSE  
DEPARTMENT OF ADMINISTRATION  
INTERGOVERNMENTAL REVIEW

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STATE NUMBER: 15-E-4600-0478  
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MS RENEE GLEDHILL-EARLEY  
CLEARINGHOUSE COORDINATOR  
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SIGNED BY:

Renee Gledhill-Earley

DATE:

3.30.15





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[illegible]

57-51240

SHEET PVO.01	PRELIMINARY	SHEET TITLE	FINAL ISSUED 02/18/2015	 <b>FLS ENERGY</b> FLORIDA LIGHT & SOLAR ENERGY, INC. 10000 W. BOULEVARD, SUITE 100 BOCA RATON, FL 33433	PROJECT	RED CEDAR SOLAR FARM		DESIGNED BY	CSH	REV.      DESCRIPTION      DATE
					ADDRESS	4290 RED CEDAR RD. GIBSONVILLE, NC 27249 36 19937, -79 650363		DRAWN BY	BA CSH	