

United States Department of Agriculture Rural Development

October 13, 2010

SUBJECT:

Finding of No Significant Impact (FONSI) BlueFire Fulton Renewable Energy LLC

City of Fulton, Mississippi

DESCRIPTION OF ACTION

The U.S. Department of Agriculture, Rural Business-Cooperative Service (RBS) has received an application from BlueFire Fulton Renewable Energy, LLC to guarantee a loan under the Biorefinery Assistance Program. The purpose of the loan would be to construct and operate a cellulosic ethanol biorefinery. The proposal, the Fulton Project, would produce up to 19 million gallons of fuel grade ethanol per year at its peak capacity. The facility would be located in Fulton, Itawamba County, Mississippi. The environmental analysis of this proposed action is contained in an Environmental Assessment (EA) prepared by the Department of Energy (DOE) for a similar loan guarantee to BlueFire Fulton Renewable Energy, LLC; RBS has adopted that EA for this proposed action.

The facility would utilize advanced cellulose-to-ethanol conversion technologies to convert woody biomass to ethanol. The facility would require 427,680 dry tons of biomass per year. The biomass would be obtained from unmerchantable timber, logging residues and/or merchantable timber. Timberland comprises approximately 63.3 percent of the total land within a 75-mile radius of the Fulton Project site. Land ownership of the timberlands is predominantly private, 89.8 percent, with 8.0 percent Federal land and 2.3 percent State lands. The total excess biomass supply of 2,165,421 tons per year is greater than 3.3 times the 651,638 green tons per year required by the Fulton Project. The site's easy access to barge and rail would also allow for procurement of feedstock from outside the 75-mile radius. Other biomass from agricultural (residues) or urban (cellulosic municipal solid waste) sources may also be utilized as the volumes and infrastructure for these sources become more economical. These would provide supplemental biomass for long term operations.

The anticipated 18 million gallons of ethanol per year output is expected to directly displace 18 million gallons of gasoline per year, thereby contributing to the overall reduction of CO₂ emissions in the U.S. By use of biomass instead of fossil fuels the facility is estimated to off-set up to 306,288 tons per year of anthropogenic CO₂.

1400 Independence Ave, S.W. Washington, DC 20250-0700 Web: http://www.rurdev.usda.gov

Committed to the future of rural communities.

The Proposal would impact approximately 13.5 acres of wetlands on-site. Approximately 12 acres of wetlands would be cleared and approximately 1.48 acres of wetlands would be filled. A permit application with the U.S. Army Corps of Engineers for these impacts and proposed compensatory mitigation is currently under review. The mitigation would consist of restoration of 7.5 acres of former bottomland hardwood forested wetlands located in Monroe County, Mississippi. This proposal would have moderate, adverse effects to wetlands/waterways, and minor adverse effects to air quality, water quality, and local flora and fauna. All of the environmental impacts identified in the EA are anticipated to be short-term and minor except for the consumption of wood and water which are anticipated to be long-term but minor. None of the impacts poses a significant adverse effect to the natural or human environment.

BASIS FOR FINDINGS

As required by the National Environmental Policy Act and agency regulations, RBS has reviewed and adopted the DOE EA that assessed the potential environmental effects of the proposal. After consideration of the applicant's proposal, the EA and DOE FONSI, and comments from Federal and State environmental regulatory and natural resource agencies, the agency has determined that the proposal does not constitute a major Federal Action significantly affecting the quality of the natural or human environment. Therefore, RBS will not prepare an Environmental Impact Statement for this proposal.

The Applicant must obtain and comply with all appropriate Federal, State, and local permits and approvals required for construction and operation of the biorefinery, and implement DOE's Mitigation Action Plan (MAP) in order to minimize potential impacts and this requirement shall be incorporated and enforceable through the Agency's Conditional Commitment for Guarantee.

FINDINGS

The attached environmental assessment for the subject proposal has been prepared and reviewed by the appropriate Rural Business-Cooperative Service officials. After reviewing the assessment and the supporting materials attached to it, I find that the subject proposal will not significantly affect the quality of the human environment. Therefore, the preparation of an environmental impact statement is not necessary.

I also find that the assessment properly documents the proposal's status of compliance with the environmental laws and requirements listed therein.

Prepared by:

JULIET C. BOCHICCHIO Date

Environmental Protection Specialist

Program Support Staff

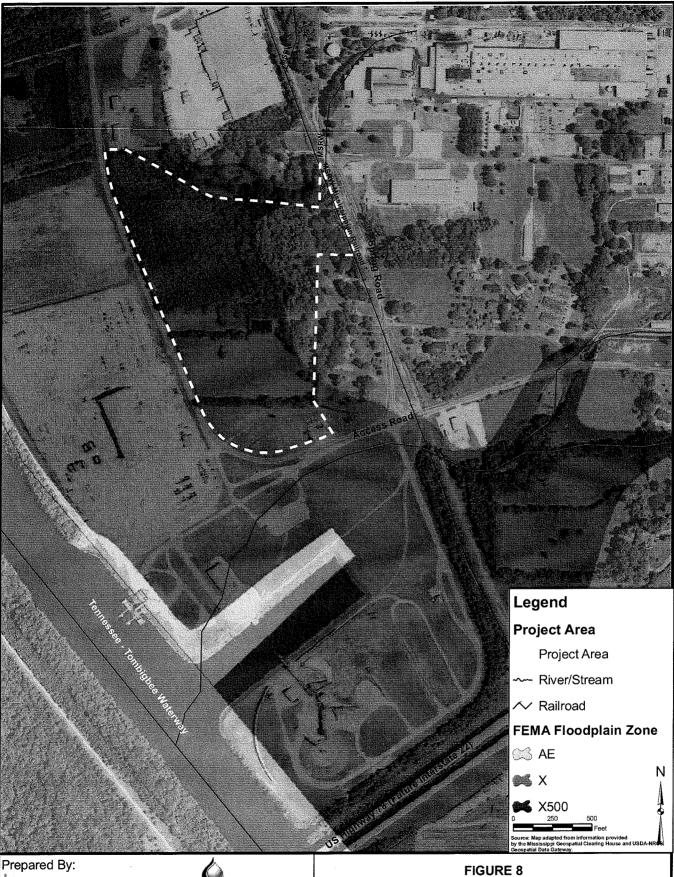
Recommended:	WILLIAM C. SMITH Director, Energy Division Rural Business-Cooperative Service	Date	All po
Approved:	JUDITH A. CANALES Administrator Rural Business-Cooperative Service	12/1/0 Date	· · · · · · · · · · · · · · · · · · ·

DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY STANDARD ELOOD HAZARD DETERMINATION FORM (SEHDE)

See The Attached Instructions

O.M.B. No. 1660-0040 Expires December 31, 2011

STANDARD FLOOD HAZARD DETER		Instruct	ions	Expires De	ecember 31, 2011
	SECTION I - LOAN INFORMATI	ION			
1. LENDER NAME AND ADDRESS	COLLATERAL (Building/Mobile (Legal Description may be attact)		al Property) PF	ROPERTY AI	DDRESS
BNP Paribas, Americas 787 7th Avenue New York, NY 10019	Northwest Quarter of Section 1, To Mississippi.	,	uth, Range 8 E	ast, Itawamb	a County,
** == ** ** ** ** ** ** ** ** ** ** ** *	4. LOAN IDENTIFIER		JNT OF FLOOP	D INSURAN	CE REQUIRED
94-1677765		0.00			
A NATIONAL ELOOP INCUPANCE PROCEAM	SECTION II				
NATIONAL FLOOD INSURANCE PROGRAM NFIP Community Name	2. County(ies)	3. State	4. NFIP Com	nmunity Num	her
		MS	280081		
City of Fulton	Itawamba	IVIO	280061		
B. NATIONAL FLOOD INSURANCE PROGRAM ((NFIP) DATA AFFECTING BUILDING/M	OBILE HOME			
NFIP Map Number or Community-Panel Numbe (Community name, if not the same as "A")	er 2. NFIP Map Panel Effective/ Revised Date	3. LOMA/LC	MR 4. Floo	od Zone	5. No NFIP Map
20000100050	February 3, 1993	r YES	X 500		
2800810005C	rebluary 3, 1993	Date	— x 300		
C. FEDERAL FLOOD INSURANCE AVAILABILIT	Y (Check all that apply)				
1. 🕱 Federal Flood Insurance is available (C	Community participates in NFIP).	Regular	Program [Emergency	Program of NFIP
2. Federal Flood Insurance is not available	le because community is not participating	in the NFIP.			
	Barrier Resources Area (CBRA) or Otherw	vise Protected	Area (OPA). F	ederal Flood	Insurance may
not be available.	Designation Date:				
D. DETERMINATION					
IS BUILDING/MOBILE HOME IN (ZONES CONTAINING THE LET		RD AREA	∏ YI	ES [⊼ NO
If yes, flood insurance is required by the F If no, flood insurance is not required by th	Flood Disaster Protection Act of 1				
E. COMMENTS (Optional)					
This area protected from the one percent annual che to possible failure or overtopping during larger flood Land located in Section 1, Township 10 South, Range	ls (Wildlife Technical Services, Inc. Phase	e I Environmen	terway by leve tal Site Assess	e, dike, or otl ment for a 38	ner structure subject B-acre Parcel of
			•		
	NEID E LUIE				
This determination is based on examining the other information needed to locate the building	MFIP map, any Federal Emergency g/mobile home on the NFIP map.	Managemen	: Agency revis	sions to it, a	ind any
F. PREPARER'S INFORMATION					
NAME, ADDRESS, TELEPHONE NUMBER (If other	er than Lender)	-/	DAT	E OF DETER	RMINATION
Juliet Bochicchio, Environmental Protection Special 1400 Independence Avenue, SW Washington DC, 20250 202-205-8242	ist Julit Doche	Mi	October 7, 20)10	



AECOM

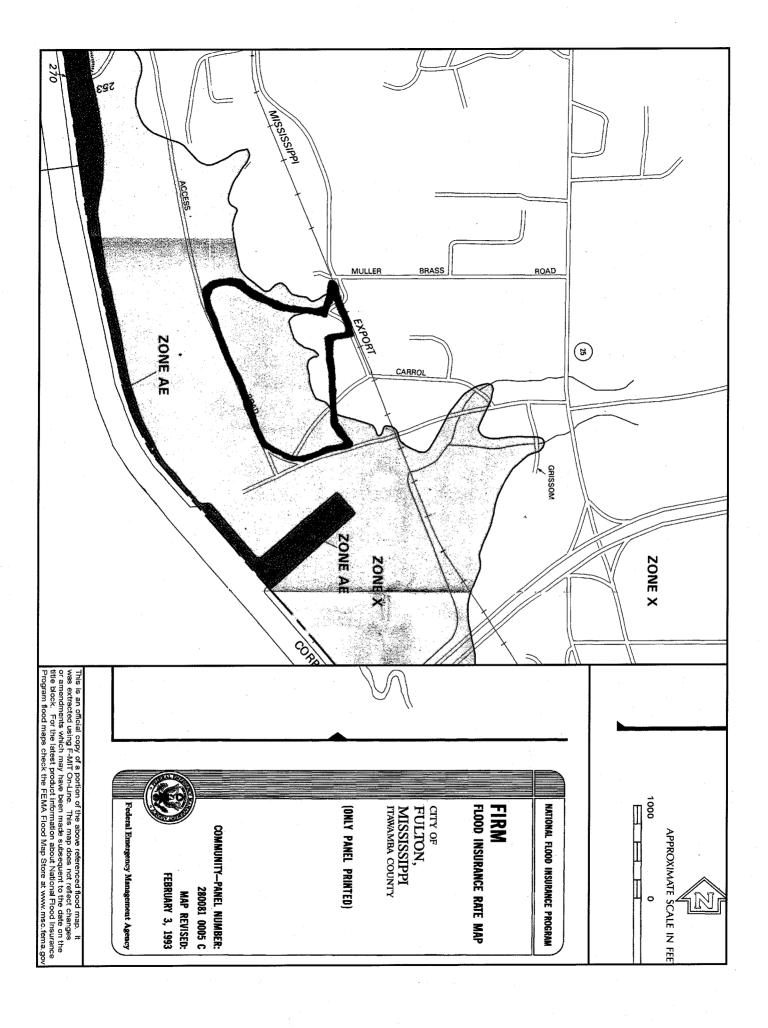


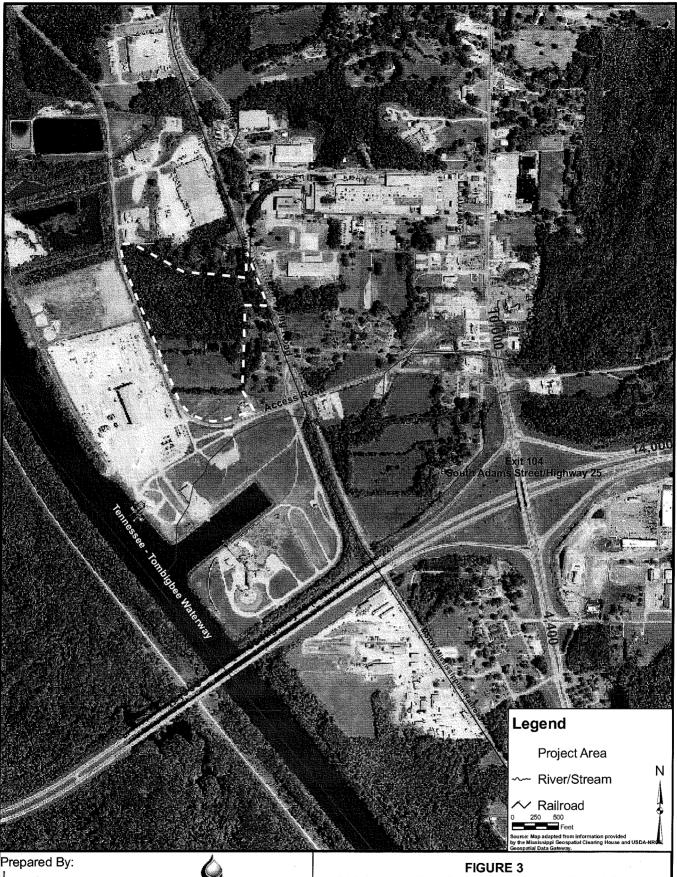
FULTON PROJECT SITE FEMA FLOODPLAIN MAP

BLUEFIRE ETHANOL FULTON MISSISSIPPI FACILITY FULTON, MISSISSIPPI

SEPT. 2009

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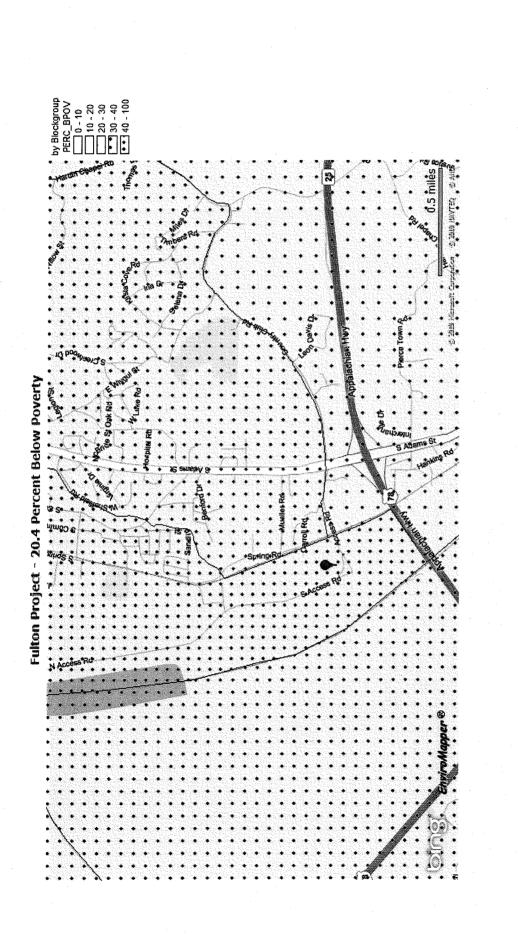
AECOM Prepared For: 2005-2007 AVERAGE ANNUAL DAILY TRAFFIC MAP

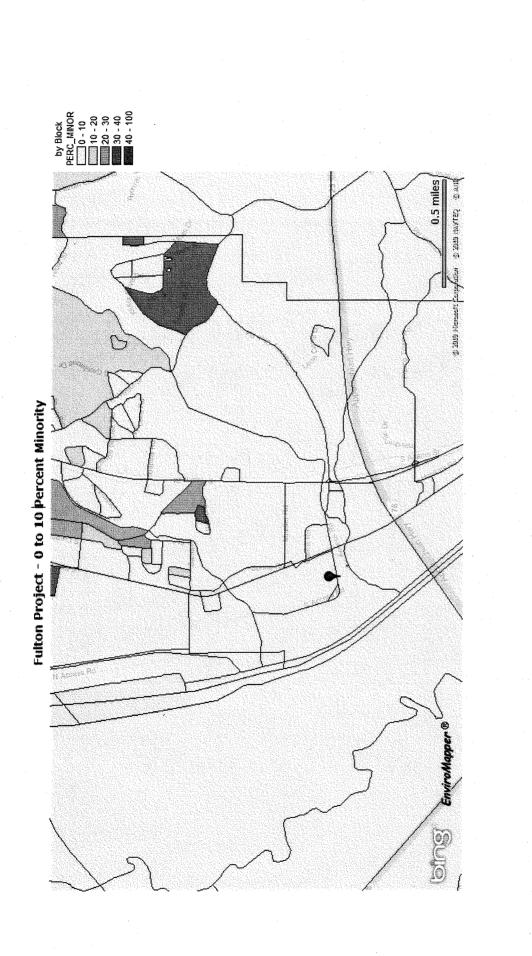
BLUEFIRE ETHANOL FULTON MISSISSIPPI FACILITY FULTON, MISSISSIPPI

09180109.01

Rural Development Environmental Justice (EJ) and Civil Rights Impact Analysis (CRIA) Certification

1 . Applicant's name and proposed project description: BlueFire Fulton Rewable Energy LLC -
Construction and Operation of a 19 MMG/Year Cellulosic Ethanol Facility.
2. Rural Development's loan/grant program/guarantee or other Agency action: 9003 Biorefinery
Assistance Program - Loan Note Guarantee
3. Attach a map of the proposal's area of effect identifying location or EJ populations, location of the proposal area of impact or
✓ Attach results of EJ analysis from the Environmental Protection Agency's (EPAs) EnviroMapper with proposed project location and impact footprint delineated.
4. Does the applicant's proposal or Agency action directly, indirectly or cumulatively affect the quality and/or level of services provided to the community? ☐ Yes ✓ No ☐ N/A
5. Is the applicant's proposal or Agency action likely to result in a change in the current land use patterns (types of land use, development densities, etc)? Yes No N/A
6. Does a demographic analysis indicate the applicant's proposal or Agency's action may disproportionately affect a significant minority and/or low-income populations? Yes No N/A
If answer is no, skip to item 12. If answer is yes, continue with items 7 through 12.
7. Identify, describe, and provide location of EJ population
8. If a disproportionate adverse affect is expected to impact an EJ population, identify type/level of public outreach mplemented.
D. Identify disproportionately high and adverse impacts on EJ populations.
10. Are adverse impacts appreciably more severe or greater in magnitude than the adverse impacts expected on non-ninority/low-income populations? Yes No N/A
1. Are alternatives and/or mitigation required to avoid impacts to EJ populations? Yes No N/A
f yes, describe
22. I certify that I have reviewed the appropriate documentation and have determined that: No major EJ or civil rights impact is likely to result if the proposal is implemented. A major EJ or civil rights impact is likely to result if the proposal is implemented. Juliet Bochicchio, EPS The Land Control of the contro
Name and Title of Certifying Official Date





STATE OF MISSISSIPPI , LEE COUNTY:

word	To words atCents per w
S FEES	PRINTERS
For copies of the Environmental Assessment or for further information, please contact: Juliet Bochicchio, Environmental Protection Specialist, USDA, Rural Development, 1400 Independence Avenue SW, Mail Stop 0761, Washington DC, 20250, RD,NEPA@wdc.usda.gov, (202) 205-8242. Any person interested in commenting on the proposal should submit their comments to the Agency contact above. Comments must be received by RBS within 15 days following the date of publication. RBS will make no further decisions regarding this proposed action during this fifteen-day period.	
As required by the National Environmental Policy Act and agency regulations, RBS has reviewed and adopted the DOE EA that assessed the potential environmental effects of the proposal. Upon consideration of the applicant's proposal, the EA and DOE FONSI, comments from federal and state environmental regulatory and natural resource agencies, the agency has determined that the proposal will not have a significant adverse effect on the quality of human environment. Therefore, RBS will not prepare an Environmental Impact Statement for this project.	
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Cellulosic Ethanol Biorefinery City of Fulton, Mississippi The U.S. Department of Agriculture, Rural Business-	Vol No Date
Notification of the Finding of No Significant Impact (FONSI) BlueFire Fulton Renewable Energy LLC's	Vol No Date
	137 Nod33 Date 1104 18
attached, has been made in said newspaper for	of a certain notice, a true copy of which is hereunto ———————————————————————————————————
deposes and says that the J	Northeast Mississippi Daily Journal, who being duly sworn,
Tupelo, Lee County, Mississippi, called The	newspaper printed and published in the City of
CLAY FOSTER, JR. Publisher of a	е, Н.
DIANNE P. POWELL Notary Public,	Personally appeared before me, DIA