### **Planning and Development Department**

156 CHURCH STREET, HENDERSON, NC 27536 (252) 738-2080 / FAX 738-2089



### **Staff Report 05/08/2014**

Owner: Claude T. Jackson

Description of Conditional Use Permit Request:
The applicant is requesting a conditional use permit to allow constructions.

The applicant is requesting a conditional use permit to allow construction of a 10 MW solar farm under the use category of "Solar Energy System, Large Scale".

**Applicant:** ESA Henderson NC, LLC

**Exhibits as follows:** 

**Exhibit 1.** Application **Exhibit 2.** Site Plan

**Exhibit 3.** Conditional Use Permit Check List

**Parcel ID:** 0224 02021

#### **DRAFT Findings of Fact**

- 1. The request is for a conditional use permit to allow a 10 MW solar farm on a parcel zoned (L-I) Light Industrial.
- 2. Claude T. Jackson is the property owner. The property is to be leased by ESA Henderson NC, LLC.
- 3. The property is located directly behind 325 Bearpond Road, but access will be from Facet Road; Property more specifically identified as tax parcel 0224 02021.
- 4. The property consists of 68 +/- acres of which 35.7 acres will be the array footprint area with 35.3 acres as open space. The property currently is wooded with no structures.
- 5. The lot is currently zoned (LI) Light Industrial.
- 6. The application requesting a conditional use permit was filed on February 28, 2014.
- 7. The adjoining property owners were notified on April 25, 2014
- 8. The property was posted on April 25, 2014.
- 9. The legal notice was run on April 23, and April 30, 2014.

### **Location:**

Bearpond/Facet Road intersection (behind Bearpond Fire Department)

**Current Zoning:** (L-I)

### **Public Hearing:**

Light Industrial

05/8/2014

### Prepared by:

Jordan McMillen

#### **Staff Comments**

The applicant is requesting a conditional use permit to construct a 10 MW solar farm. As proposed, the solar farm project area would be leased from the current property owner and would cover approximately 68 acres of which nearly 36 acres would be covered with solar panels. The proposal calls for an 8 ft. fence on the site plan with an 8 ft. hedge and landscape buffer on the north (abuts Variety Wholesalers) and on the east (abuts US Hwy 1). The fence and landscaped buffer heights proposed meet the ordinance requirements, however no specific details have been provided for how this will be accomplished. Also, no details have been provided on whether lighting would be provided or on the type of groundcover that would be utilized or how the groundcover/weeds will be controlled within the site. Mr. Jackson owns all of the property on the west side of this parcel and the Bearpond Vol. Fire Department and US 1 interchange is located to the south of the property.

The proposed solar farm will be located approximately 0.85 miles of the previously approved site on Bearpond Road and will be approximately 0.5 miles from the site approved by the City of Henderson along Martin Creek Road. To date the County ordinance nor the NC State template ordinance has provisions requiring a separation between solar farms. This may be something that the Planning Board may want to consider for future ordinance amendments.

The solar panels will have no moving parts and will have a relatively low profile with a maximum height of 8 feet (ordinance requires less than 25 ft). The project area will be approximately 300 ft. from the nearest structure (Bearpond Vol. Fire Department building) and the solar panels will be approximately 550 feet from the building.

# Initial Concerns: The application mentions a 6 ft. fence but the site plan mentions an 8 ft. fence. The existing site plan does not appear to account for an existing recognized

- stream and pond on the property.

  3. Setbacks are shown as 30 feet, but must be as follows in LI zoning district (front
- 4. No details are provided for landscaping or how buffer and groundcover will be accomplished or maintained.
- 5. Driveway permit will need submitted prior to any final zoning approval.
- Additional details need provided on land to be cleared and evidence of NCDENR involvement (i.e. permits) needs to be provided. – Recommend requiring NCDENR certificate of completion prior to issuance of local certificate of occupancy.
- 7. Need submittal of interconnection agreement

-75 feet, side -25 feet, and rear -75 feet).

8. Need for inclusion of interconnection point on the site plan and information to confirm compliance with ordinance regarding underground utilities.



Vance County Planning & Development Department

156 Church Street, Suite 3 Henderson, NC 27536

Ph: (252) 738-2080 Fax: (252) 738-2089

#### For Administrative Use Only:

1 or manners with the obe only.							
Case #	20140510-2						
Fee Paid	CK \$250						
BOA Date	5/10/14						

<b>Property Owne</b>	r Infor	mation						
Property Owner:	Claud	e T. Jackson						
Mailing Address:	100 W	est Winds R	oad	W. V.		1271		
City: Macon				_State: <u>NC</u>	Zip(	Code:	27551	
Phone #: ( 863	)	657-2520	-		Fax #:	(	)	-
E-mail Address:	veriana	ındclaude@ei	nbarc	ımail.com				
Applicant Information Applicant: ESA I								
Mailing Address:	801 In	ternational P	arkw	ay, Suite 500	-			
City: Lake Mary				State: FL	Zip C	ode:	32746	
Phone #: <u>(407</u>	) 268	- 6455		Fax	c#: (407)		268 - 64	75
E mail Address	araia1@	ogoron ozzebl						
E-mail Address:	Claigia	esarenewable	es.coi	<u> </u>				
Property Information Property Address	nation	For multiple pi	operti	ies please attach	an additional	sheet	<b>,</b>	
Property Inform	nation	For multiple pi	operti	ies please attach		sheet ———		Number:
Property Inform	nation	For multiple pi	operti	ies please attach nderson, NC Tax		Map	M5	Number:
Property Inform	<b>nation</b> :: <u>611 B</u>	For multiple prearpond Road	operti	ies please attach nderson, NC Tax		Map	M5	Number:
Property Information Property Address	mation s: 611 B	For multiple prearpond Road	operti	ies please attach nderson, NC Tax PIN (p		Map on #):_	M5	
Property Information Property Address  Type of Petition: Existing Zoning:	mation s: 611 B	For multiple prearpond Road	operti	ies please attach nderson, NC Tax PIN (p	parcel identificati	Map on #):_	0224 02021	
Property Information Property Address  Type of Petition: Existing Zoning:	Condi Light In	For multiple prearpond Road tional Use dustrial Acres	operti	ies please attach nderson, NC Tax PIN (p	parcel identifications	Map on #):_	0224 02021	



Vance County Planning & Development Department

### **Statement of Justification**

1. Application is hereby made for the following use: Please explain below:

We propose building a large scale ground mounted solar farm. The site is directly across Highway 1. The project site is directly west of a PEC Substation and overhead lines run along the north property line. There will be a 6' security fence surrounding the property and a landscape buffer to screen the modules from view.

	e intent is to: Check all that apply:  Construct a new structure for a cond Repair the existing structure for the  Alter and/or expand the existing stru  Other	conditional use;
1	e following requirements have been pro Site plan; Property description; NC DOT entrance permit (if application)	
4. A	ditional information:	
Atta	ched please find our completed applica	tion for NCDOT driveway permit.
cond to ea	tions, and based on the evidence pres	the Board shall consider each of the following ented at the hearing(s) make findings in regards the Conditional Use Permit is in the best interest
A	The use requested is among those list which the subject property is located.	ed as an eligible conditional use in the district in  Yes X No
	Solar Farms are included as a condi	tional use in Light Industrial zoning.
F	The use or development is located, demaintain or promote the public health	esigned and proposed to be operated so as to or safety;  Yes X No
		et all local, state and Federal Codes to protect the olic. It will generate clean, renewable energy to



Vance County Planning & Development Department

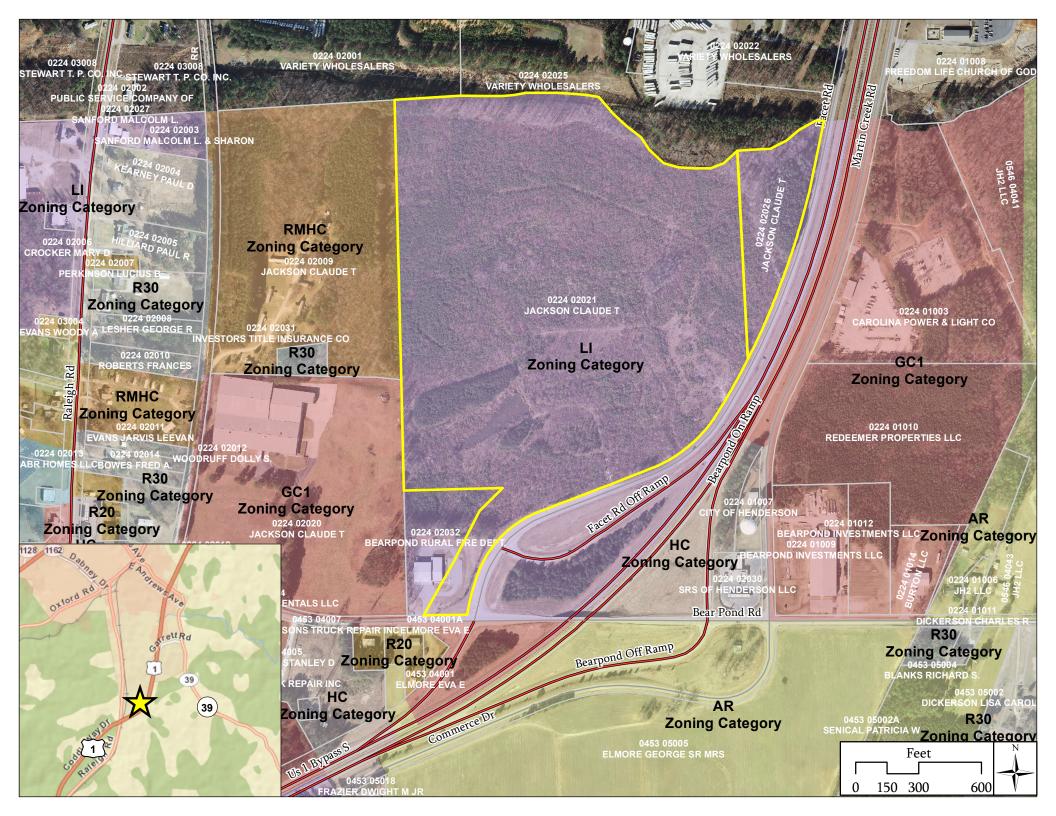
ALLECTS.	NORTH CAROLINA value County Flaming & Development Department
C.	The use or development complies with all required regulations of the Zoning Ordinance and all applicable specific conditions and specifications;  Yes X No
	The project complies with all required regulations of the Zoning Ordinance and all applicable specific conditions and specifications.
D.	The use or development is located, designed and proposed to be operated so as to maintain or enhance the value of adjoining or abutting property, or that use or development is a public necessity;
	Yes <u>X</u> No
	The project is located, designed and will operate to enhance the value of adjoining property through job creation, creation of clean renewable energy, and increase to the tax base. It will be landscaped to screen the project from view and will have no emission or make any noise effecting the neighbors.
E.	The use or development will be in harmony with the area in which it is located and will be in general conformity with the plan of development of the County.
	Yes X No
	The development will be in harmony with the area in which it is located and will be in general conformity with the plan of development of the County.
Prop	erty Owners Signature
Please s	Sign in blue or black with Date 2-7-14
Anni	icants' Signature
Appl	1 21
V VV	ranay fuels Date 2/12/14
Please:	sign in blue or blackink



Vance County Planning & Development Department

### Property Information (Additional Parcel)

Property Address	: 611 Bearpond Road		
Tax Map Number	:	PIN (parcel identification #	4h· 0224 02026
Type of Petition:	Conditional Use	Charles recommended a	r). <u>0224 02020</u>
Existing Zoning:	T' 14 T 1	Proposed Zoning:	Light Industrial
Acreage:	2 1/	Road Frontage:	Eight muustral
Existing Use:	Vacant		







April 7, 2014

Deputy County Manager Vance County 156 Church Street, Suite 3 Henderson, NC 27536 Attn: Jordan D. McMillen

RE: ESA Henderson NC, LLC

Dear Mr. McMillen:

Please accept this letter as notification that ESA Henderson NC, LLC is a manager managed LLC and I have the authority to execute agreements and behalf of and bind the company. I am aware that Craig Livingston and/or Lindsay Herold will be working with the County and making presentations, applications, etc on behalf of the company and I give them the authority to do so.

Please feel free to contact me with any further questions.

Sincerely,

Daniel Ros

ESA Henderson NC, LLC

Member /

407-268-6455

### [ZONING ORDINANCE – VANCE COUNTY, NORTH CAROLINA]

Use Type	AR	R30	R20	R10	RMHC	НС	GC1	LI	IM	EIA	OI	os	WOZ	Parking- Loading
Adult Establishments	Х	Х	Х	Х	Х	CU	CU	CU	Х	Х	Х	Х	Х	Parking: 4 per 1,000 SF Loading: N/A
Airports	CU	Х	Х	Х	Х	Х	CU	CU	CU	CU	CU	Х	Х	Special Study Required***
Commercial Communications Towers (Cell Towers)	CU	Х	Х	Х	Х	CU	CU	CU	CU	CU	CU	CU	CU	Parking: 2 per tower Loading: 1
Cemetery (Church, Family)	Р	Р	Р	CU	Х	Х	Х	Х	Х	Х	Х	Р	CU	N/A
Cemetery (Commercial)	Р	CU	Х	×	Х	Х	Х	х	×	x	Х	CU	CU	Parking: 6 per 1,000 SF of office-building Loading: 1
Shooting Ranges	CU	X	×	х	Х	Х	X	Х	х	Х	Х	CU	CU	Parking: 1.5 per shooting station Loading: 1
Solar Collector (Accessory)	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	N/A
Solar Energy Systems, Large Scale (Solar Farms)	CU	х	х	х	x	х	х	CU	CU	CU	CU	х	х	Parking: 1/every 2 employees on shift of greatest employment
TEMPORARY USES														
Commercial (temporary-see Definitions) Outdoor Sales	Р	Р	Х	Х	Х	Р	Р	Р	Р	Р	Р	Р	Р	Parking: staff review Loading: N/A
Concrete/Asphalt Operations	Х	Х	Х	х	x	х	Х	CU	Р	Х	Х	Х	х	Parking: staff review Loading: 1 per vehicle
Contractor's Office (located at project site for duration of project)	CU	CU	Х	Х	Х	CU	CU	CU	Р	CU	CU	Х	CU	Parking: 1 per 200 SF Loading: N/A
Farmstand	Р	Р	Х	х	×	Р	Р	Р	х	Х	Х	Р	Р	Parking: 8 spaces Loading: N/A
Manufactured Housing Unit for Office and/or Exhibition	CU	CU	CU	CU	Р	Р	Р	Р	Х	Х	CU	CU	CU	Parking: 1 per vehicle Loading: N/A
Manufactured Home for Hardship	CU	CU	CU	CU	Р	Х	X	х	Х	X	X	х	CU	Parking: 2 per dwelling unit Loading: N/A
Public Interest Event and/or Special Event	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	Parking: 1/patron Loading: 1 per vehicle
Temporary Miscellaneous Sales (see Definitions)	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	Parking: 1 per vehicle Loading: N/A

\*\*\*See Section 6.10.L

- c. Warning signs. Warning signs meeting National Rifle Association (NRA) guidelines for shooting ranges shall be posted at one hundred-foot intervals along the entire perimeter of the shooting range facility and along the entire perimeter of the property lines in the same intervals.
- Distance from occupied dwelling. All shooting stations, targets, and firing lines shall be located at least one-half (1/2) mile from any existing, occupied dwelling.
- Access to facility. Access to the facility and shooting range shall be secured and controlled, with ingress and egress permitted only during operating hours as established below. Prior to issuance of a permit, a valid driveway permit must be obtained from North Carolina Department of Transportation.
- Written variance. The distance requirements of this section may be varied with written permission in the form of an affidavit from all adjoining property owners and all rightful leaseholders of dwellings located within the ½ mile surrounding area affected thereby, except that written approval is not needed for any adjoining land owned by the State of North Carolina.

#### 5. Operational Requirements:

- *Maintenance.* Where not otherwise specified within this ordinance, shooting range facilities shall be operated and maintained in a manner that shall meet or exceed the guidelines as specified by the Range Technical Team Advisor upon inspection going by the guidelines in the NRA's Range Source Book: A Guide to Planning and Construction, current edition.
- b. Best Management Practices. Outdoor Shooting Ranges shall provide a plan outlining its Best Management Practices (BMPs) relating to lead management. Said plan shall meet or exceed the guidelines as specified by the Environmental Protection Agency's (EPA) Best Management Practices for Lead at Outdoor Shooting Ranges, current edition.
- c. Hours of operation. Shooting Ranges shall be allowed to operate between sunrise and sunset Monday through Saturday, except that the hours may be extended after sunset for purposes of subdued-lighting certification of law enforcement officers, or may be extended for other purposes only when a permit allowing such activity is issued in advance by the Sherriff's Office.
- d. Liability insurance. The permittee shall be required to carry a minimum of three million dollars (\$3,000,000.00) per occurrence of liability insurance. Such insurance shall name Vance County as an additional insured party and shall save and hold Vance County, its elected and appointed officials, and employees acting within the scope of their duties harmless from and against all claims, demands, and causes of action of any kind or character, including the cost of defense thereof, arising in favor of a person or group's members or employees or third parties on account of any property damage arising out of the acts or omissions of the permittee, his/her group, club, or its agents or representatives. The County shall be notified of any policy changes or lapses in coverage.

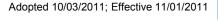
#### N. Solar Energy Systems, Large Scale (Solar Farms)

1. Height: Systems, equipment and structures shall not exceed twenty-five (25) feet in height when ground mounted. Excluded from this height requirement, however, are electric transmission lines and utility poles. Roof mounted systems shall not exceed the maximum height for the applicable zoning district.

- 2. Setback: Active solar system structures must meet the following setbacks:
  - a. Ground mounted– Ground mounted solar energy systems as part of a solar farm shall meet the minimum zoning setback for the zoning district in which it is located.
- 3. Screening and Fencing: Adequate fencing shall be provided along the perimeter of the area (with all entrances gated) to prevent trespassing on the property.
- 4. Lighting: All lighting shall be arranged and shaded so as to reflect the light away from adjoining properties and streets.
- 5. Noise: Noise levels measured at the property line shall not exceed fifty (50) decibels when located adjacent to an existing residence or residential district.
- Power Transmission Lines: To the extent practical, all new power transmissions lines to any building, structure or utility connection shall be located underground. Existing above ground utility lines shall be allowed to remain in their current location.
- 7. Approved Solar Components: Electric solar system components must have a UL listing.
- 8. Compliance with Building and Electrical Codes: All solar farms shall be in conformance with the requirements of the State Building and Electrical Codes (current addition), the State of North Carolina and Vance County. All active solar systems shall be inspected by a Vance County building inspector.
- 9. Utility Notification: No grid tied photovoltaic system shall be installed until evidence has been given to the Planning and Development Department that the owner has been approved by the utility company to install an interconnected customer-owned generator. Off-grid systems shall be exempt from this requirement.
- 10. Abandonment: It is the responsibility of the owner to notify the County and to remove all obsolete or unused systems within twelve (12) months of cessation of operations. Reusable components are to be recycled whenever possible.

#### O. WIRELESS COMMUNICATIONS TOWERS ("CELL TOWERS")

- 1. The purpose of the following requirements is to promote and to protect the public health, welfare, and safety by regulating existing and proposed communication towers. The requirements are intended to protect property values, create a more attractive economic and business climate, and enhance and protect the scenic and natural beauty of designated areas.
- 2. General Requirements. When allowed, such towers and associated equipment shall be subject to the following additional requirements:
  - Towers shall not interfere with normal radio and television reception in the vicinity. Commercial messages shall not be displayed on any tower. Violations shall be considered zoning violations and shall be corrected under the enforcement provisions.
  - b. Lighting shall not exceed the Federal Aviation Administration (FAA) minimum if lighting is required by the FAA. The lights shall be oriented so as not to project directly onto surrounding residential property, consistent with FAA requirements. Prior to issuance of a building permit, the applicant shall be required to submit documentation from the FAA that the lighting is the minimum lighting required by the FAA.
  - Towers shall be constructed and maintained in conformance with all applicable building code requirements.
  - d. In order to protect the public from unnecessary exposure to electromagnetic radiation, the tower owner shall provide appropriate



### **Conditional Use Permit Check Sheet**

1.			those listed	d as an	eligible	conditional use in	the distric	t in which the subject
	property is located True Alston: Brummitt: Haley:		Harvin: Johnson: Shaw:	True	False	Stainback: Alternate 1: Alternate 2:	False	TOTAL
2.	•	pment is 1		igned a	nd propo		l so as to r	naintain or promote
	the public health of	or safety.				•		•
	Alston: True  Alston: Brummitt: Haley:	False	Harvin: Johnson: Shaw:	True	False	Stainback: Alternate 1: Alternate 2:	False	TOTAL
3.	The use or develo	•	•	_	_	gulations of the Zo	ning Ordir	nance and all
	• •	False	Harvin: Johnson: Shaw:		False	Stainback: Alternate 1: Alternate 2:	False	TOTAL
4.	The use or develo the value of adjoin	•		•		•		maintain or enhance
	True	False	utting propi	True	False	True	•	TOTAL
	Alston:		Harvin:			Stainback:		TOTAL
	Brummitt:		Johnson: Shaw:			Alternate 1: Alternate 2:		
5.	The use or develo	pment wil	ll be in harn	nony w	ith the a	rea in which it is to	be locate	ed and will be in
	general conformit	-	plan of dev	velopm	ent of th	e County.		
		False		True	False	True	False	TOTAL
	Alston:		Harvin:	Ц	$\sqcup$	Stainback:		
	Brummitt:		Johnson:	$\vdash$	$\mathbb{H}$	Alternate 1:	$\vdash$	
	Haley:		Shaw:			Alternate 2:		