

Tel (919) 755-8700 Fax (919) 755-8800 www.foxrothschild.com BENJAMIN L. SNOWDEN Direct No: 919.719-1257 Email: BSnowden@foxrothschild.com

June 1, 2022

Ms. A. Shonta Dunston Chief Clerk North Carolina Utilities Commission 430 N. Salisbury Street Raleigh, NC 27603

RE: In the matter of the Applications of Sumac Solar, LLC
For Certificate of Public Convenience and Necessity to Construct
a 120-MW Solar Facility in Bertie County, NC
EMP-110, Sub 0
PUBLIC REDACTED PREFILED SUPPLEMENTAL TESTIMONY
OF AMANDA MACK

Dear Ms. Dunston:

On behalf of Sumac Solar, LLC, in the above referenced matter and docket, I herewith provide the Public, Redacted Prefiled Supplemental Testimony of Amanda Mack and Attachments thereto.

Thank you for your assistance with this application. Should you have any questions concerning this filing, please do not hesitate to contact me.

Sincerely,

/o/ Benjamin L. Snowden

Benjamin L. Snowden

pbb

Copy to: Parties of Record
Counsel of Record

A Pennsylvania Limited Liability Partnership

California Colorado Delaware District of Columbia Florida Georgia Illinois Minnesota Nevada New Jersey New York North Carolina Pennsylvania South Carolina Texas Washington

## **PUBLIC (REDACTED) VERSION**

# PREFILED SUPPLEMENTAL TESTIMONY OF AMANDA MACK ON BEHALF OF SUMAC SOLAR LLC

# NCUC DOCKET NO. EMP-110, SUB 0

		<u>I. I</u>	NTRODU	CTION			
Q.	PLEASE S	STATE YOUR	R NAME,	TITLE, AND B	USINES	S ADDRESS.	
A.	My name	is Amanda M	fack. I an	n Project Devel	opment	Manager with	EDF
Renewables	Development	t, Inc. (USA) (	"EDF Rei	newables") at 36	00 Amer	rican Blvd. W,	Suite
400, Bloomin	ngton, MN 55	5431.					
Q.	PLEASE	DESCRIBE	YOUR	EDUCATION	AND	PROFESSIO	NAL
EXPERIEN	CE.						
Α.	I am a seas	soned renewabl	e energy p	professional with	4 years	of greenfield en	nergy
development	experience a	and an additio	nal ten ye	ears of working	in the e	nergy industry.	Му
experience in	ncludes comm	nunity and utili	ty scale pr	oject developme	nt, permi	itting, RFP respo	onse,
contract prop	osal examina	tion, formation	, and cost a	analysis in the So	lar, Wind	l, Nuclear, and F	ossil
Fuel Power	Generation a	nd Communic	ations Fie	ld. I hold a Ba	chelor o	of Science degree	ee in
Business Ma	nagement fro	m University o	f Wiscons	in – Stout.			
Q.	WHAT IS	YOUR RELA	TIONSH	IP TO THE AP	PLICAN	T?	
A.	As discusse	ed in the appli	cation, Su	mac Solar LLC	("Sumac	Solar") is a lin	nited
liability comp	pany organize	ed for the devel	lopment ar	nd ownership of t	he Suma	c Solar Project	("the
Project") for	which a Cer	rtificate of Pub	olic Conve	nience and Nece	essity is	being sought in	this
	A. Renewables 400, Bloomin Q. EXPERIEN A. development experience in contract prop Fuel Power Business Man Q. A. liability comp	A. My name Renewables Development 400, Bloomington, MN 55  Q. PLEASE EXPERIENCE.  A. I am a seas development experience a experience includes common contract proposal examina Fuel Power Generation a Business Management fro  Q. WHAT IS  A. As discussed liability company organized	A. My name is Amanda M Renewables Development, Inc. (USA) ( 400, Bloomington, MN 55431.  Q. PLEASE DESCRIBE  EXPERIENCE.  A. I am a seasoned renewable development experience and an addition experience includes community and utilic contract proposal examination, formation Fuel Power Generation and Communic Business Management from University of Q. WHAT IS YOUR RELATIONAL AS discussed in the application of the development of the	Q. PLEASE STATE YOUR NAME, A. My name is Amanda Mack. I am Renewables Development, Inc. (USA) ("EDF Ren 400, Bloomington, MN 55431. Q. PLEASE DESCRIBE YOUR EXPERIENCE. A. I am a seasoned renewable energy processed and an additional ten year experience includes community and utility scale processed proposal examination, formation, and cost at Fuel Power Generation and Communications Field Business Management from University of Wiscons Q. WHAT IS YOUR RELATIONSH A. As discussed in the application, Sur liability company organized for the development and an additional ten year.	A. My name is Amanda Mack. I am Project Develor Renewables Development, Inc. (USA) ("EDF Renewables") at 364 400, Bloomington, MN 55431.  Q. PLEASE DESCRIBE YOUR EDUCATION EXPERIENCE.  A. I am a seasoned renewable energy professional with development experience and an additional ten years of working experience includes community and utility scale project development contract proposal examination, formation, and cost analysis in the Sol Fuel Power Generation and Communications Field. I hold a Bar Business Management from University of Wisconsin – Stout.  Q. WHAT IS YOUR RELATIONSHIP TO THE API A. As discussed in the application, Sumae Solar LLC of liability company organized for the development and ownership of the solution o	Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINES  A. My name is Amanda Mack. I am Project Development Renewables Development, Inc. (USA) ("EDF Renewables") at 3600 Amer 400, Bloomington, MN 55431.  Q. PLEASE DESCRIBE YOUR EDUCATION AND EXPERIENCE.  A. I am a seasoned renewable energy professional with 4 years development experience and an additional ten years of working in the energy experience includes community and utility scale project development, permit contract proposal examination, formation, and cost analysis in the Solar, Wind Fuel Power Generation and Communications Field. I hold a Bachelor of Business Management from University of Wisconsin – Stout.  Q. WHAT IS YOUR RELATIONSHIP TO THE APPLICAN A. As discussed in the application, Sumac Solar LLC ("Sumac liability company organized for the development and ownership of the Sumac liability company organized for the development and ownership of the Sumac	Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.  A. My name is Amanda Mack. I am Project Development Manager with Renewables Development, Inc. (USA) ("EDF Renewables") at 3600 American Blvd. W, 400, Bloomington, MN 55431.  Q. PLEASE DESCRIBE YOUR EDUCATION AND PROFESSION EXPERIENCE.  A. I am a seasoned renewable energy professional with 4 years of greenfield endevelopment experience and an additional ten years of working in the energy industry. experience includes community and utility scale project development, permitting, RFP respectontract proposal examination, formation, and cost analysis in the Solar, Wind, Nuclear, and Fuel Power Generation and Communications Field. I hold a Bachelor of Science degrees Business Management from University of Wisconsin – Stout.  Q. WHAT IS YOUR RELATIONSHIP TO THE APPLICANT?

proceeding. Sumac Solar was initially developed by Geenex Solar, LLC, a Delaware limited

liability company ("Geenex"), and later fully acquired by my employer, EDF Renewables. While

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- 1 Geenex spearheaded land acquisition and local permitting, and continues to be involved in the
- 2 development of the Project, EDF Renewables is in charge of engineering, procurement,
- 3 construction, power marketing, and O&M.

#### 4 **CURRENT** Q. **PLEASE SUMMARIZE YOUR EMPLOYMENT** 5

RESPONSIBILITIES.

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A. My current role as Project Development Manager with EDF Renewables covers the spectrum of solar PV development from land acquisition to preparing the project for construction. This includes local, state, and federal permitting, running multiple RFP's, environmental studies and surveys, scheduling and offtake support. Local permitting focuses on obtaining permits and fulfilling their condition to enable issuance of a grading and building permit. State permitting includes state environmental permits as well as Certificates of Public Convenience and Necessity or Reports of Proposed Construction, as applicable. Federal permits are typically limited to wetland related permits issued by the U.S. Army Corps of Engineers.

#### HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING? Q.

No. Emily Dalager, who provided direct testimony on behalf of EDF Renewables A. in this docket on November 16, 2020, is no longer associated with EDF Renewables and is not available to testify. I am the EDF Renewables employee primarily responsible for development of Sumac Solar and am authorized and designated to provide testimony regarding the project in this docket.

#### HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE NORTH Q.

#### CAROLINA UTILITIES COMMISSION?

A. I have not.

2 TESTIMONY, PROVIDED ON NOVEMBER 16, 2020?  3 A. Yes.  4 Q. ARE YOU PERSONALLY FAMILIAR WITH THE MADE OF TESTIMONY?  6 A. I am.  7 Q. DO YOU ADOPT MS. DALAGER'S PREFILED DIRECT TESTIMONY?  8 BEHALF OF EDF RENEWABLES AND THE APPLICANT, AS IF IT WERE OWN, FOR ALL PURPOSES IN THIS DOCKET?  10 A. Yes.  11 II. CHANGES TO PROJECT AND APPLICATION  12 Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE LAST FILED TESTIMONY?  13 A. Yes. As further described in the Prefiled Second Supplemental Testing Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resing 120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.								
A. Yes.  Q. ARE YOU PERSONALLY FAMILIAR WITH THE MADE OF STREET OF EDF RENEWABLES AND THE APPLICANT, AS IF IT WERE OWN, FOR ALL PURPOSES IN THIS DOCKET?  A. Yes.  II. CHANGES TO PROJECT AND APPLICATION  Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testing Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resident of the New York Changes in Substantial Network Upgrades on Dominion's system.		Q.	HAVE YO	U REVIEWED	MS. I	DALAGER'S	PREFILED	DIRECT
Q. ARE YOU PERSONALLY FAMILIAR WITH THE MADE DISCUSSED IN MS. DALAGER'S PREFILED DIRECT TESTIMONY?  A. I am.  Q. DO YOU ADOPT MS. DALAGER'S PREFILED DIRECT TESTIMONS BEHALF OF EDF RENEWABLES AND THE APPLICANT, AS IF IT WERE OWN, FOR ALL PURPOSES IN THIS DOCKET?  A. Yes.  II. CHANGES TO PROJECT AND APPLICATION  Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testing Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resing 120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.	Т	ESTIMON	NY, PROVIDE	D ON NOVEMBI	ER 16, 20	20?		
DISCUSSED IN MS. DALAGER'S PREFILED DIRECT TESTIMONY?  A. I am.  Q. DO YOU ADOPT MS. DALAGER'S PREFILED DIRECT TESTIMO  BEHALF OF EDF RENEWABLES AND THE APPLICANT, AS IF IT WERE  OWN, FOR ALL PURPOSES IN THIS DOCKET?  A. Yes.  II. CHANGES TO PROJECT AND APPLICATION  Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE  LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resi  120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.		A.	Yes.					
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Q. DO YOU ADOPT MS. DALAGER'S PREFILED DIRECT TESTIMO  BEHALF OF EDF RENEWABLES AND THE APPLICANT, AS IF IT WERE  OWN, FOR ALL PURPOSES IN THIS DOCKET?  A. Yes.  II. CHANGES TO PROJECT AND APPLICATION  Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE  LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resi  120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering  substantial Network Upgrades on Dominion's system.	D	DISCUSSE	D IN MS. DAL	AGER'S PREFII	ED DIRI	ECT TESTIM	ONY?	
BEHALF OF EDF RENEWABLES AND THE APPLICANT, AS IF IT WERE OWN, FOR ALL PURPOSES IN THIS DOCKET?  A. Yes.  II. CHANGES TO PROJECT AND APPLICATION  Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE  LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resi  120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.		A.	I am.					
OWN, FOR ALL PURPOSES IN THIS DOCKET?  A. Yes.  II. CHANGES TO PROJECT AND APPLICATION  Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE  LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resi  120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.		Q.	DO YOU AD	OPT MS. DALA	GER'S PI	REFILED DIR	RECT TESTI	MONY ON
A. Yes.  11  12  13  14  15  16  17  18  19  19  19  10  10  10  10  11  11  11	В	BEHALF O	F EDF RENE	WABLES AND	THE AP	PLICANT, A	S IF IT WE	RE YOUR
11 II. CHANGES TO PROJECT AND APPLICATION  12 Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE  13 LAST FILED TESTIMONY?  14 A. Yes. As further described in the Prefiled Second Supplemental Testi  15 Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resi  16 120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering  17 substantial Network Upgrades on Dominion's system.	0	WN, FOR	ALL PURPOS	SES IN THIS DO	CKET?			*
Q. HAVE THERE BEEN ANY CHANGES TO THE PROJECT SINCE LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testi Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resi 120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.		A.	Yes.					
LAST FILED TESTIMONY?  A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resist  Market Therefore Testimony?  A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resist  Market Therefore Testimony?  A. Yes. As further described in the Prefiled Second Supplemental Testi  B. Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resist  Substantial Network Upgrades on Dominion's system.			<u>II. CH</u>	NGES TO PRO	IECT AN	D APPLICAT	ION	
A. Yes. As further described in the Prefiled Second Supplemental Testi  Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resist  Market 120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.		Q.	HAVE THE	RE BEEN ANY C	HANGES	S TO THE PRO	OJECT SINC	E SUMAC
Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resistant and the Mark Upgrades on Dominion's system.  15 Donna Robichaud filed this same day, the proposed Sumac Solar Project has been resistant and the Mark Upgrades on Dominion's system.	L	AST FILE	D TESTIMON	Y?				
16 120 MWac to 80 MWac. The reduction in size allowed Sumac to avoid triggering substantial Network Upgrades on Dominion's system.		A.	Yes. As fur	ther described in	the Prefil	ed Second Suj	pplemental Te	stimony of
substantial Network Upgrades on Dominion's system.	D	onna Robic	chaud filed this	same day, the pro	posed Sur	mac Solar Proje	ect has been re	esized from
substantial Network Opgrades on Dominion's System.	12	20 MWac	to 80 MWac.	The reduction in	size allo	wed Sumac to	avoid trigger	ring certain
10	su	ıbstantial N	etwork Upgrade	es on Dominion's	system.			
18 Q. ARE THERE ANY CHANGES TO THE INFORMATION INCLUI	Q	. ARE	THERE AN	Y CHANGES	го тне	E INFORMA	TION INCL	UDED IN

21 A. Yes. The following items in <u>Exhibit 2</u> to the Application are revised as follows:

SUMAC'S APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND

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**NECESSITY?** 

(i) Nature of proposed generating facility: The size of the Sumac Solar Project has been
reduced from 120 MW. The nameplate generating capacity of the facility will be 80 MW, with
anticipated gross capacity of approximately 101.43 MWdc and anticipated generation of [BEGIN
CONFIDENTIAL] [END CONFIDENTIAL] per year.

Project construction has been delayed until mid 2024, with an estimated date of commercial operation in the fourth quarter of 2025. An updated estimate of the construction costs is included as **Confidential Attachment A.** 

- (ii) Site plan: An updated color site plan map ("Site Plan") is included as Attachment B. As indicated on Attachment B, the proposed site plan for the project has not changed, except for the removal of one area on the western portion of the site (designated as the "Panel Reduced Area") from the proposed area of development.
- 12 (iii) Locational information: The size of the Sumac Solar Project is approximately 2,804 acres.
  - (v) Required approvals. Sumac Solar received a Notification of Jurisdictional Determination from the U.S. Army Corps of Engineers (included as **Attachment C**) on September 18, 2020.
  - (vi) <u>Description of transmission facilities</u>: Although the Sumac Solar project originally had two positions in the PJM queue, the second interconnection application, AD1-023, has been withdrawn, reducing the size of the project from 120 MWac to 80 MWac. The remaining application is AD1-022. As redesigned, the project will include approximately 167,706 solar photovoltaic modules, 22 inverters, 22 pad mounted step-up transformers to medium voltage and one transmission level voltage step up-transformer.

Public Redacted Prefiled Supplemental Testimony of Amanda Mack Sumac Solar LLC EMP-110, SUB 0

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- Q. OTHER THAN THE UPDATES AND CHANGES DISCUSSED IN THIS
- 4 TESTIMONY, DO YOU WISH TO CORRECT OR REVISE ANY ASPECT OF MS.
- 5 DALAGER'S PREFILED TESTIMONY?
- 6 A. No.
- 7 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 8 A. Yes.

# PUBLIC (REDACTED) VERSION

# PREFILED SUPPLEMENTAL TESTIMONY OF AMANDA MACK ON BEHALF OF SUMAC SOLAR LLC

# NCUC DOCKET NO. EMP-110, SUB 0

# **ATTACHMENTS**

A	Revised Construction cost estimate  **CONFIDENTIAL**
В	Revised Site Plan
C	Notification of Jurisdictional Determination

### PUBLIC (REDACTED) VERSION

### CERTIFICATE OF SERVICE

This is to certify that the undersigned has this day served the foregoing **PREFILED SUPPLEMENTAL TESTIMONY OF AMANDA MACK** upon the following by electronic mail as follows:

Christopher Ayers, Esq. Executive Director - NC Public Staff Chris.Ayers@psncuc.nc.gov

Robert Josey NC Public Staff - Legal Division Robert.josey@psncuc.nc.gov

Megan Jost NC Public Staff – Legal Division Megan.jost@psncuc.nc.gov

Nadia Luhr NC Public Staff - Legal Division nadia.luhr@psncuc.nc.gov

This 1st day of June, 2022.

Isl Benjamin L. Snowden
Benjamin L. Snowden