

**Application for a Certificate of Environmental Compatibility
and Public Need Pursuant to Article 10 of the
New York State Public Service Law**

Watkins Glen Solar Energy Center
Town of Dix, Schuyler County, New York

Case No.: 17-F-0595

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List of Acronyms

Acronym	Definition
AAC	All Aluminum Conductor
AADT	Annual Average Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
AC	Alternating current
AM	Amplitude Modulation
ACI	American Concrete Institute
ACS	American Community Survey
AED	Automated External Defibrillator
AEIC	Association of Edison Illuminating Companies
AGA	American Gas Association
AgWG	Agricultural Working Group
AHJ	Authority Having Jurisdiction
AED	Automated External Defibrillator
AMSL	above mean sea level
ANL	Argonne National Lab
ANSI	American National Standards Institute
AOC	Area of Concern
APA	Adirondack Park Agency
APE	Area of Potential Effects
API	American Petroleum Institute
ARP	Acid Rain Program
ASA	Acoustical Society of America
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
ATV	All-Terrain Vehicle
AWG	Aquatic Working Group
AWS	advanced wireless service
BBA	Breeding Bird Atlas
BBS	Breeding Bird Survey
BCP	Brownfield Cleanup Program
BEI	Blattner Energy Inc.

Acronym	Definition
BES	Bulk Energy System
BFM	Bonded Fiber Matrix
BIL	Basic Insulation Level or Basic Impulse Level
BLM	Bureau of Land Management
BLS	Bureau of Labor Statistics
BMP(s)	Best Management Practice(s)
BP	Business Park District
BPA	Bonneville Power Authority
BPS	Bulk Power System
C	Celsius
CL	Cellular Service
cm	centimeter
CAA	Clean Air Act
CAD	Computer-aided Design
CAP	Corrective Action Plan
CARIS	Congestion Assessment and Resource Integration Study
CBC	Christmas Bird Count
CCA	Community Choice Aggregation
CCT	Critical Clearing Time
CDL	Cropland Data Layer
CEII	Critical Energy Infrastructure Information
CEMS	Continuous Emissions Monitoring Systems
CES	Clean Energy Standard
CFR	Code of Federal Regulations
CIP	Critical Infrastructure Protection
CL&CPA	Climate Leadership and Community Protection Act
CORS	Continuously Operating Reference Stations
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	Carbon dioxide equivalents
COC	contaminant of concern
CPR	Cardiopulmonary Resuscitation
CRIS	Cultural Resources Information System

Acronym	Definition
CSA	Combined Statistical Area
CTBTO	Comprehensive Nuclear Test Ban Treaty Organization
CTO	Connecting Transmission Owner
CTOAF	Connecting Transmission Owner Attachment Facilities
CUGIR	Cornell University Geospatial Information Repository
CVT	Capacitor Voltage Transformers
CWA	Clean Water Act
CWCP	Countywide Comprehensive Plan
DAR	Division of Air Resources
db	Decibels
dBA	A-weighted decibels
DBH	Diameter at breast height
DC	Direct current
DER	Division of Environmental Remediation
DHSES	Division of Homeland Security and Emergency
DMM	Document and Matter Management
DOT	Department of Transportation
DOW	Division of Water
EAB	Emerald Ash Borer
ECL	Environmental Conservation Law
EM	Environmental Monitor
EMO	Emergency Management Office
EGU	Electric Generating Units
EIA	Energy Information Administration
EMF	Electric and Magnetic Fields
EMR	Experience Modification Rate
END or E	Endangered
EPA or USEPA	Environmental Protection Agency
EPC	Engineering, Procurement, and Construction
ERM	Environmental Resource Mapper
ERP	Emergency Response Plan
ERP	Environmental Restoration Program

Acronym	Definition
ESCO	Soil Cleanup Objectives to protect ecological resources
ESD	environmental site design
ESRI	Environmental Systems Research Institute
FGM	Flexible Growth Medium
FD	Follower Density
FM	Frequency Modulation
ft.	feet
FAA	Federal Aviation Administration
FAC	Facultative
FCC	Federal Communications Commission
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FGDC	Federal Geographic Data Committee
FHWA	Federal Highway Administration
FID	fault interrupting device
FOIL	Freedom of Information Law
FPDC	Fleet Performance and Diagnostics Center
FRN	Federal Registration Number
GDP	Gross Domestic Product
GHG	greenhouse gas
GIS	Geographic Information System
GLONASS	Global Navigation Satellite System
GP	General Permit
gpm	Gallons per minute
GPS	Global-Positioning System
GRP	Gross Regional Product
GSU	Generator Step-up
GW	gigawatt
HA	Amateur
hp	Horsepower
HV	Vanity
HCM	Highway Capacity Manual
HCS	Highway Capacity Software

Acronym	Definition
HDD	horizontal directional drilling
HDM	Highway Design Manual
HDMFPP	Heavy Duty MultiFilament Polypropylene
HDPE	high-density polyethylene
HFNS	High-Frequency Natural Sound
Hg	Mercury
HMANA	Hawk Migration Association of North America
HSG	Hydrologic Soil Group
HTF	Heat Transfer Fluid
HUC	Hydrologic Unit Code
HVAC	Heating Ventilation and Air Conditioning
HWM	Hazardous Waste Management
Hz	Hertz
IBA	Individual Breaker Analysis
IBC	International Building Code
ICEA	Insulated Cable Engineers Association
IEEE	Institute of Electrical and Electronic Engineers
INCE	Institute of Noise Control Engineering
IPaC	Information for Planning and Consultation
IPM	Integrated Planning Model
ISMCP	Invasive Species Management and Control Plan
ISO	International Organization for Standardization
ITE	Institute of Transportation Engineers
JHA	Job Hazards Analysis
JEDI	Job and Economic Development Impact
K	potassium
KCM	kilo-circular mil
kV	Kilovolt
kV/m	Kilovolt per meter
lb/MWh	Pound per megawatt hour
Lb(s).	Pound(s)
LC	Letter of credit
LBR	Lowest Breaker Rating

Acronym	Definition
LCOE	Levelized Cost of Energy
LDR	Low-Density Rural District
LiDAR	Light Detection and Ranging
LLC	Limited Liability Company
LMP	Location-based Market Prices
LOD	Limit of disturbance
LORAN	Long-Range Navigation
LOS	Level of service
LOS	Line of sight
LSE(s)	Load-serving entity(ies)
LSZ(s)	Landscape Similarity Zone(s)
LTE	Long-time Emergency
LUST	Leaking Underground Storage Tank
mG	milligauss
m/s	Meters per second
MCOV	Maximum Continuous Operating Voltage
MDEP	Maryland Department of the Environment
MDR	Medium Density Residential District
MEP	maximum extent practicable
MI/HR	Mile per hour
MIS	Minimum Interconnection Standard
MLRA	major land resource areas
MFPP	Multi-Filament Polypropylene
MOP	Manual of Practice
MOV	metal oxide varistor
MOVES	Motor vehicle emission simulator
mph	Miles per hour
MSA	Metropolitan Statistical Area
MSDS	Material Safety Data Sheet
MU	Mixed Use District
MVA	Megavolt amperes
MW	megawatt
MWdc	megawatts of direct current

Acronym	Definition
MWh	megawatt hours
N	Nitrogen
n.d.	No date
NARUC	National Association of Regulatory Utility Commissioners
NAAQS	National Ambient Air Quality Standards
NCED	National Conservation Easement Database
NCHRP	National Cooperative Highway Research Program
NEC	National Electric Code
NED	National Elevation Dataset
NEER	NextEra Energy Resources
NEMA	National Electrical Manufacturers Association
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Corporation
NESC	National Electric Safety Code
NESHAP	National Emission Standards for Hazardous Air Pollutants
NEXRAD	next-generation radar
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NL	Navigation Law
NIST	National Institute of Standards and Technology
NLCD	National Land Cover Dataset
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOT	Notice of Termination
NOx	nitrogen oxides
NPCC	Northeast Power Coordinating Council, Inc.
NPS	National Park Service
NRC	National Response Center
NRCS	Natural Resources Conservation Service
NREL	National Renewable Energy Lab
NRHP	National Register of Historic Places
NRS	Northern Research Station
NRT	National Recreation Trails

Acronym	Definition
NSF	Non-frost susceptible
NSPS	New Source Performance Standards
NWI	National Wetlands Inventory
NWP	Nationwide Permit
NYAC	New York Archaeological Council
NYCRR	New York Codes, Rules and Regulations
NYHPA	New York Historic Preservation Act
NYIS	New York Invasive Species
NYISO	New York Independent System Operator
NYNHP	New York Natural Heritage Program
NYPSC	New York Public Service Commission
NYS	New York State
NYSRC	New York State Reliability Council
NYSDAM	New York State Department of Agriculture and Markets
NYSDEC or DEC	New York State Department of Environmental Conservation
NYSDPS or DPS	New York State Department of Public Service
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
NYSEG	New York State Electric & Gas
NYSEPB	New York State Energy Planning Board
NYSERDA	New York State Energy Research and Development Authority
NYSGISPO	New York State Geographic Information System Program Office
NYSM	New York State Museum
NYSORPTS	New York State Office of Real Property Tax Services
NYSTS	New York State Transmission System
O ₃	ozone
O&M	Operations and maintenance
OATT	Open Access Transmission Tariff
OHSAS	Occupational Health and Safety Assessment Series
OPRHP	Office of Parks, Recreation and Historic Preservation
OSHA	Occupational Safety and Health Administration
OHSW	Overhead Shield Wire

Acronym	Definition
P	phosphorus
P ₂ O ₅	phosphate
Pb	lead
PAH	Polycyclic Aromatic Hydrocarbons
PAR	Phase angle regulators
PCBs	Polychlorinated biphenyls
PCS	Personal Communication Service
PCS	Personal Communication Service
PE	Professional Engineer
PEM	Palustrine Emergent wetlands
PFO	Palustrine Forested wetlands
PILOT	payment in lieu of taxes
PIP	Public Involvement Program
PLS	Pure Live Seed
PM	Particulate Matter
POD	Plan of the Day
POI	Point of Interconnection
POL	Public Officers Law
PPA	Potential Pollinator Areas
PPE	Personal Protective Equipment
ppm	Parts per million
PRISM	Partnership for Regional Invasive Species Management
PRP/RP	potentially responsible party or responsible party
psf	Pounds per square foot
PSL	Public Service Law
PSS	Preliminary Scoping Statement
PSFM	Polymer Stabilized Fiber Matrix
PUB	Palustrine Unconsolidated Bottom
PV	Photovoltaic
PVC	Polyvinyl chloride
QAQC	Quality Assurance and Quality Control
RCNM	Roadway Construction Noise Model
RCRA	Resource Conservation and Recovery Act

Acronym	Definition
REC	Renewable Energy Credit
REPH	ephemeral streams
RES	renewable energy standard
RESRFP	Renewable Energy Standard Solicitation Request for Proposal
RFI	Request for Information
RIN	intermittent streams
ROW	Right-of-way
RQD	Rock Quality Designation
RSF	Reinforced Silt Fence
RTU(s)	Remote Terminal Unit(s)
RUP	perennial streams
RUS	Rural Utilities Service
SC	Special Concern
SAE	Standard Automotive Engineering
SCADA	supervisory control and data acquisition
SCIDA	Schuyler County Industrial Development Agency
SCOs	Soil Cleanup Objectives
SDS	Safety Data Sheet
SE	Special Entertainment District
SEMO	State Emergency Management Office
SENY	Southeast New York
SEP	State Energy Plan
SEQRA	State Environmental Quality Review Act
sf	Square feet
SF	Silt Fence
SGCN	Species of Greatest Conservation Need
SGCN-HP	Species of Greatest Conservation Need – High Priority
SHPO	State Historic Preservation Office
SLM	sound level meter
SMDM	Stormwater Management Design Manual
SO ₂	sulfur dioxide
SPC	Spill Prevention and Control Countermeasures Plan
SPCN	Species of Potential Conservation Need

Acronym	Definition
SPDES	State Pollutant Discharge Elimination System
SRHP	State Register of Historic Places
SRIS	System Reliability Impact Study
SSC	species of special concern
SSCO	Supplemental Soil Cleanup Objectives
SSF	Super Silt Fence
SSF	State Superfund Program
SSESC	Specifications for Erosion and Sediment Control
SSPC	Steel Structures Painting Council
SSURGO	Soil Survey Geographic Database
STARS	Spill Technology and Remediation Series
STP	Shovel Test Pit
SUF	System Upgrade Facilities
SWAP	State Wildlife Action Plan
SWCD	Soil and Water Conservation District
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
TAGM	Technical and Administrative Guidance Memorandum
TBD	To be determined
TCPU	Transportation, Communications, and Public Utilities
TEI Manual	Transmission Expansion and Interconnection Manual
THPO	Tribal Historic Preservation Office
THR or T	Threatened
TNC	The Nature Conservancy
TRM	Turf Reinforcement Mat
TSD	Technical Support Document
TWG	Terrestrial Working Group
UHF	Ultra High Frequency
UL	Underwriters Laboratories
UNK	Unknown
UPNY	Upstate New York
USACE	United States Army Corps of Engineers
USBM	United States Bureau of Mines

Acronym	Definition
USC	United States Code
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USDOI	United States Department of the Interior
USDOT	United States Department of Transportation
USF	University of Southern Florida
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
V	Volt
VCP	Voluntary Cleanup Program
VHF	Very High Frequency
VIA	Visual Impact Assessment
VMT	Vehicle Miles Traveled
VRC	Visual Resource Category
VSA	Visual Study Area
VT	Voltage Transformers
XLPE-TR	cross linked polyethylene tree resistant
WG	Working Group
WS	Wireless communication service
WHO	World Health Organization
yd ³	cubic yard