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Broadwater LNG Project Final Environmental Impact Statement

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ACRONYMS AND ABBREVIATIONS

ABS	American Bureau of Shipping
ABSG	ABSG Consulting, Inc.
ACHP	Advisory Council on Historic Preservation
ACORN	Association of Community Organizations for Reform Now
ADCP	acoustic Doppler current profiler
AGC	Annual Guidelines Concentration
agl	above ground level
AIS	Automated Identification System
AMS	Area Maritime Security
ANOA	Advance Notice of Arrival
ANSI	American National Standards Institute
APE	area of potential effect
API	American Petroleum Institute
AQCR	air quality control region
ASME	American Society of Mechanical Engineers
AWOIS	Automated Wreck and Obstruction Information System
BACT	best available control technology
bcf/d	billion cubic feet per day
BMP	best management practice
BOD	biological oxygen demand
BPM	blows per minute
Broadwater, or the applicant	Broadwater Energy LLC and Broadwater Pipeline LLC
BTU	British thermal units
BTU/ft ² -hr	British thermal units per square foot per hour
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CCE	Citizens Campaign for the Environment
CCTV	closed circuit television
CE	Certifying Entity
CEAB	Connecticut Energy Advisory Board
CEC	Community Environmental Center
CEII	critical energy infrastructure information
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (aka SuperFund)
Certificate	Certificate of Public Convenience and Necessity
CFR	Code of Federal Regulations
CL&P	Connecticut Light and Power
CMMS	computerized maintenance management system
CMP	Coastal Management Program
CO	carbon monoxide
CO ₂	carbon dioxide
Coast Guard	U.S. Coast Guard
COE	U.S. Army Corps of Engineers
COLREGS	International Regulations for Preventing Collisions at Sea of 1972
CSC	Connecticut Siting Council
CTDEP	Connecticut Department of Environmental Protection
CWA	Clean Water Act
CZM	coastal zone management

ACRONYMS AND ABBREVIATIONS (CONTINUED)

CZMA	Coastal Zone Management Act of 1972
dB	decibel
dBA	decibels on the A-weighted scale
dB _L	decibel on a logarithmic scale
DCS	distributed control system
DDS	dredge disposal sites
DGPS	differential global positioning system
DO	dissolved oxygen
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
DPDSV	dynamically positioned dive support vessel
DSV	dive support vessel
E&SC Plan	Erosion and Sedimentation Control Plan
EAC	Early Action Compact
EBP	early benthic phase
ECL	Environmental Conservation Law
EEZ	Exclusive Economic Zone
EFH	essential fish habitat
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EIR	Environmental Impact Report
Energy Policy Task Force	New York City Energy Policy Task Force
EPA	U.S. Environmental Protection Agency
EPAct	Energy Policy Act
ER-L	effects range-low
ER-M	effects range-median
ESA	Endangered Species Act of 1973
FAA	Federal Aviation Administration
FBI	Federal Bureau of Investigation
FEED	front-end engineering design
FERC, or the Commission	Federal Energy Regulatory Commission
FPSO	floating production storage and offshore loading facility
FRU	feed-gas receiving unit
FSO	Facility Security Officer
FSRU	floating storage and regasification unit
FWS	U.S. Fish and Wildlife Service
GAO	U.S. Government Accountability Office
GBS	gravity-based structure
GHG	greenhouse gases
GRT	gross registered tons
GWP	global warming potential
HAP	hazardous air pollutant
HCA	high-consequence area
HDD	horizontal directional drilling
HSWG	Harbor Safety Working Group
International Gas Carrier Code, or IGC Code	International Maritime Organization's International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk
ICSS	Integrated Control and Safety System
IGTS	Iroquois Gas Transmission System
IMO	International Maritime Organization

ACRONYMS AND ABBREVIATIONS (CONTINUED)

INS	Immigration and Naturalization Service
IPS	instrumented protective system
IRA	Independent Risk Assessment
ISO	International Standards Organization
ISO-NE	Independent System Operator—New England
KEDLI	KeySpan Energy Delivery Long Island
KEDNY	KeySpan Energy Delivery New York
kPa	kilopascals
LAER	lowest achievable emission rate
LFL	lower flammable limit
LINSHA	Long Island North Shore Heritage Area
LIPA	Long Island Power Authority
LISS	Long Island Sound Study
LISS Act	Long Island Stewardship Act
LISTS	Long Island Sound Trawl Surveys
LISWTP	Long Island Sound Waterborne Transportation Plan
LNG	liquefied natural gas
LPG	liquid petroleum gas
LWB	Lighted Whistle Buoy
μPa	microPascal
m ²	square meters
m ³	cubic meters
m ³ /hr	cubic meters per hour
m/s	meters per second
MACT	maximum achievable control technology
MAOP	maximum allowable operating pressure
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
MARSEC	Coast Guard Maritime Security
mcf	thousand cubic feet
mgd	million gallons per day
mgh	million gallons per hour
mg/L	milligrams per liter
million BTU/hr	million British thermal units per hour
MMPA	Marine Mammal Protection Act
MMS	U.S. Minerals Management Service
the MOU	Memorandum of Understanding on Natural Gas Transportation Facilities (January 15, 1993)
MP	milepost
MSS	mooring support structure
MSA	Magnuson-Stevens Fishery Conservation and Management
MW	megawatt
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCAI	National Coast Assessment Index
NEP	National Estuary Program
NEPA	National Environmental Policy Act of 1969
Neptune	Neptune LNG Deepwater Port
NESHAPs	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
NGA	Natural Gas Act

ACRONYMS AND ABBREVIATIONS (CONTINUED)

NH ₃	ammonia
NHPA	National Historic Preservation Act
NJ-NY-CT	New Jersey-New York-Connecticut
NMFS	National Marine Fisheries Service
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	oxides of nitrogen
NOAA	National Oceanic and Atmospheric Administration
NMFS	NOAA's National Marine Fisheries Service
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NSHM	National Seismic Hazard Mapping Project
NSPS	New Source Performance Standards
NSR	New Source Review
NVIC	U.S. Coast Guard Navigation and Vessel Inspection Circular
NYCRR	New York Codes, Rules, and Regulations
NYISO	New York Independent System Operator
NYPA	New York Power Authority
NYSDAG	New York State Department Air Guide
NYSDEC	New York State Department of Environmental Conservation
NYSDOS	New York State Department of State
NYSERDA	New York State Energy Research and Development Authority
NYSOGS	New York State Office of General Services
O ₃	ozone
OCD	offshore coastal dispersion
OCIMF	Oil Companies International Marine Forum
OCRM	NOAA's Office of Ocean and Coastal Resource Management
OTC	Ozone Transport Commission
Operating Plan	Vessel Management and Emergency Plan
OPRHP	New York State Office of Parks, Recreation and Historic Preservation
OPS	DOT's Pipeline and Hazardous Materials Safety Administration, Office of Pipeline Safety
OSHA	Occupational Safety and Health Administration
OTR	Ozone Transport Region
P&IDs	piping and instrumentation diagrams
PAHs	polycyclic aromatic hydrocarbons
PAWSA	Ports and Waterways Safety Assessment
Pb	lead
PCBs	polychlorinated biphenyl
PFSP	Preliminary Facility Security Plan
PHMSA	DOT's Pipeline and Hazardous Materials Administration
PJM	Pennsylvania-New Jersey-Maryland Power Pool
Plan	FERC's Upland Erosion Control and Revegetation
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to 2.5 microns

ACRONYMS AND ABBREVIATIONS (CONTINUED)

Poletti Study	New York Power Authority's 2002 Poletti Ichthyoplankton Program
ppm	parts per million
PPSAO	Preliminary Project Security Assessment Overview
ppt	parts per thousand
Procedures	FERC's <i>Wetland and Waterbody Construction and Mitigation Procedures</i>
PSD	prevention of significant deterioration
psi	pounds per square inch
psig	pounds per square inch gauge
PTE	potential to emit
PWSA	Ports and Waterways Safety Act
PVSA	Preliminary Security Vulnerability Assessment
Quest	Quest Consultants, Inc
RACT	reasonably achievable control technology
RGGI	Regional Greenhouse Gas Initiative
RMP	risk management plan
RNA	regulated navigation area
ROE	Report on the Environment
ROV	remotely operated vehicle
ROW	right-of-way
SABS	suspended and bedded sediments
Sandia Report	<i>Guidance on Risk Analysis and Safety Implications of a Large Liquefied Natural Gas (LNG) Spill over Water</i>
SCADA	supervisory control and data acquisition
SCR	selective catalytic reduction
SEL	sound exposure level
SEQRA	State Environmental Quality Review Act
SGC	Short-term Guideline Concentrations
SHPO	State Historic Preservation Office
SIC	Standard Industrial Classification
SILs	significant impact levels
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SOLAS	International Convention for the Safety of Life at Sea
SPCC Plan	Spill Prevention, Control and Countermeasure Plan
SPDES	State Pollutant Discharge Elimination System (New York)
SPLs	sound pressure levels
SRV	shuttle and regasification vessel
SSI	Sensitive Security Information
STV	shell-and-tube vaporization
tcf	trillion cubic feet
TFOLIS	Task Force on Long Island Sound
the Project	Broadwater LNG Project
TMDL	total maximum daily load
TNT	trinitrotoluene
TOGS	Technical and Operational Guidance
tpy	tons per year
Transco	Transcontinental Gas Pipeline System
TSP	total suspended particulates
TSS	total suspended solids

ACRONYMS AND ABBREVIATIONS (CONTINUED)

USC	U.S. Code
USDA	U.S. Department of Agriculture
USDOC	U.S. Department of Commerce
USGS	U.S. Geological Survey
VHF	very high frequency
VOC	volatile organic compound
VOL	volatile organic liquid
VSO	Vessel Security Officer
WSR	Waterways Suitability Report
YMS	yoke mooring system