
Deepwater Port License Application Neptune Project, Massachusetts Bay

Volume II - Environmental Evaluation (Public)

Submitted to:



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Acronyms and Abbreviations

%g	percentage of the force of gravity
°C	degrees Celsius
°F	degrees Fahrenheit
§	Section
µg	microgram(s)
AAB	Air Assessment Branch
ACEC	Area of Critical Environmental Concerns
ACHP	Advisory Council on Historic Preservation
ADCP	acoustic doppler current position
AFS	American Fisheries Society
AIS	Automatic Identification Systems
AISC	American Institute of Steel Construction
Algonquin	Algonquin Gas Transmission LLC
ANSI	American National Standards Institute
API	American Petroleum Institute
Applicant, the	Neptune LNG LLC
APRS	acoustic positioning reference system
ARPA	automated radar plotting aid
ASME	American Society of Mechanical Engineers
ASMFC	Atlantic States Marine Fisheries Commission
AWOIS	Automated Wreck and Obstruction Information System
BACT	Best Available Control Technology
Bay, the	Massachusetts Bay
Bcf	billion cubic feet
Bhp	brake horsepower
BO	Biological Opinion
bpd	barrels per day
Btu	British thermal unit
CCR	Cargo control room

Acronyms and Abbreviations, *continued*

CEMS	continuous emissions monitoring system
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CHIRP	compressed high-intensity radar pulse
CMR	Code of Massachusetts Regulation
CO	carbon monoxide
COF	Certificate of Fitness
COLREGS	International Regulations for Prevention of Collisions at Sea
COMDINST	Commandant's Instruction
Commonwealth, the	the Commonwealth of Massachusetts
COTP	Captain of the Port
CPA	Comprehensive Plan Approval
CPUE	Catch Per Unit Effort
CZM	(Massachusetts Office of) Coastal Zone Management
CZMA	Coastal Zone Management Act
dB(A)	decibels of the A-weighted scale
DCR	Department of Conservation and Regulation
DDT	dichlorodiphenyltrichloroethane
DGPS	differential global positioning system
Distrigas	Distrigas of Massachusetts LLC
DMF	(Massachusetts) Department of Marine Fisheries
DNV	Det Norske Veritas
DO	dissolved oxygen
DP	dynamic positioning; dynamically positioned
DSV	diving support vehicle
Duke Energy	Duke Energy Gas Transmission
DWP	deepwater port
DWPA	Deepwater Port Act
DWT	deadweight tons
EE	Environmental Evaluation
EEZ	Exclusive Economic Zone

Acronyms and Abbreviations, *continued*

EFH	essential fish habitat
EPA	(United States) Environmental Protection Agency
EPIRB	emergency position-indicating rescue beacon
ESA	Endangered Species Act (previously, Endangered Species Preservation Act)
ESD	emergency shutdown
Everett Terminal	Distrigas Everett LNG Marine Terminal
Excelerate	Excelerate Energy LLC
FCC	Federal Communications Commission
FEED	front-end engineering design
FEEZ	Federal Exclusive Economic Zone
FERC	Federal Energy Regulatory Commission
FMPs	fishery management plans
FSO	floating, storage, and offloading
FSRU	floating, storage, and regasification unit
Gas Code, The	The SOLAS International Code governing LGN carrier construction
GBS	Gravity-Based Structure
GoMOOS	Gulf of Maine Ocean Observing System
gpm	gallons per minute
GPS	global positioning system
GT	gross tons
Gulf, the	Gulf of Maine
HAP	hazardous air pollutants
HF/MF	high frequency/medium frequency
HOM	harbor and outfall monitoring
HPLP	high-pressure liquefied natural gas (LNG) pump
HubLine SM	Algonquin HubLine SM
IEC	International Electro-technical Commission
IGC	International Gas Code
ILO	International Labor Organization
IMO	International Maritime Organization
IS	Environmental Impact Statement

Acronyms and Abbreviations, *continued*

ISCST3	Industrial Source Complex Short-Term Version 3
ISFMP	Interstate Fisheries Management Program
ISM Code	International Safety Management Code
ISO	International Standards Organization
ISPS	International Ship & Port Security
ISSC	International Ship Security Certificate
IWC	International Whaling Commission
IWS	industrial waste site
km	kilometer(s)
kW	kilowatt(s)
L ₉₀	sound level exceeded more than 90% of the time
LAER	lowest achievable emission rate
lb/hr	pounds per hour
LCMT	Lobster Conservation Management Team
L _{day}	daytime sound level
L _{dn}	day-to-night sound level
L _{eq (24)}	24-hour equivalent sound level
LLC	limited liability corporation
LNG	liquefied natural gas
L _{night}	nighttime sound level
LOC	Letter of Compliance
M.G.L.	Massachusetts General Law
m ²	square meter(s)
m ³	cubic meter(s)
m ³ /hr	cubic meter(s) per hour
MADEP	Massachusetts Department of Environmental Protection
MAFMC	Mid-Atlantic Fishery Management Council
MARAD	(United States) Maritime Administration
MARMAP	Marine Resources Monitoring, Assessment and Predicting Program
MARPOL	International Convention for the Prevention of Pollution from Ships
MARSEC	Maritime Security

Acronyms and Abbreviations, *continued*

Massachusetts DOR	Massachusetts Department of Revenue
MassGIS	Massachusetts Geographic Information System
MassPort	Massachusetts Port Authority
mb	millibars
MBDS	Massachusetts Bay Disposal Site
MBS	Massachusetts Bay and Cape Cod Bay System
MBTA	The Migratory Bird Treaty Act
mDth/d	thousand dekatherms per day
MEG	monoethylene glycol
MEPA	Massachusetts Environmental Policy Act
mg	milligram(s)
mg/L	milligrams per liter
MHC	Massachusetts Historic Commission
ml	milliliter(s)
mmBtu/hr	million British thermal units per hour
MMPA	Marine Mammal Protection Act
MMS	Minerals Management Service
mmscfd	million standard cubic feet per day
MMTA	Massachusetts Marine Trades Association
MOMTF	Massachusetts Ocean Management Task Force
MPC	Metropolitan Planning Council
mph	miles per hour
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act
MSL	modeling significance level
mt/hr	metric tons per hour
MTSA	Maritime Transport Security Act
MWRA	Massachusetts Water Resources Authority
n.d.	no date
NAAQS	National Ambient Air Quality Standards
Navtex	navigation telex radio
NBDP	narrow band direct printing
NCDC	National Climatic Data Center

Acronyms and Abbreviations, *continued*

NDBC	National Data Buoy Center
NEFMC	New England Fishery Management Council
NEFSC	Northeast Fisheries Science Center
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHESP	Natural Heritage and Endangered Species Program
NHPA	National Historic Preservation Act
nm	nautical miles
NMFS	National Marine Fisheries Service (obsolete; now NOAA Fisheries)
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOAA Fisheries	National Oceanic and Atmospheric Administration National Marine Fisheries Service (formerly NMFS)
NO _x	nitrogen oxide
NPC	National Petroleum Council
NPDES	National Pollutant Discharge Elimination System
NPS	nonpoint source (pollution)
NRA	National Recreation Area
NRHP	National Register of Historic Places
NSPS	New Source Performance Standard
NSR	New Source Review
NTL	Notice to Lessees
NTM	Network Transaction Manager
O ₃	ozone
OCIMF	Oil Companies International Marine Forum
OCS	Outer Continental Shelf
OCSLA	Outer Continental Shelf Lands Act
OPA 90	Oil Pollution Act of 1990
OSV	oceangoing supply vessel
OTR	Ozone Transport Region
P.L.	Public Law
PABX	private automatic branch exchange

Acronyms and Abbreviations, *continued*

PAH	polynuclear aromatic hydrocarbon
Pb	lead
PCB	polychlorinated biphenyl
PCHE	printed circuit heat exchanger
PM ₁₀	particulate matter
PORV	pilot-operated relief valve
ppm	parts per million
project, the	the proposed <i>Neptune</i> deepwater port project, the subject of this environmental evaluation and deepwater port application
Providence	Providence LNG
PSD	Prevention of Significant Deterioration of Air Quality
PSE	Proportional Standard Error
psi	pounds per square inch
psig	pounds per square inch gauge
RACON	radar beacon
RESCO	Refuse Energy Systems Company
RMP	risk management program
ROI	Region of influence
ROW	Right of Way
Sandia	Sandia National Laboratories
SART	search and rescue transponder
SCRAM	Support Center for Regulatory Air Modeling
Secretary of Transportation	United States Department of Transportation's Office of the Secretary of Transportation
SHPO	State Historic Preservation Office(r)
SIGTTO	Society of International Gas Tanker and Terminal Operators
SIP	State Implementation Plan
SO ₂	sulfur dioxide
SOLAS	Safety of Life at Sea
Somerset	Somerset LNG LLC
SPB	self-supporting prismatic-shape type B (LNG storage tank)
SPCC	Spill Prevention and Control Countermeasure
SPM	single point mooring

Acronyms and Abbreviations, *continued*

SRA	Statistical Reporting Area
SRV	shuttle regasification vessel
STCW	Standards of Training, Certification and Watchkeeping
STL	submerged turret loading
T&E	threatened and endangered
TLP	tension leg platform
TOC	total organic carbon
Tractebel EGI	Tractebel Electricity and Gas International
TSS	traffic separation scheme
TTS	temporary (hearing) threshold limit
U.S.	United States
U.S.C.	United States Code
USACE	United States Army Corps of Engineers
USCG	United States Coast Guard
USDOI	United States Department of the Interior
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UTM	Universe Transverse Mercator
VHF	very high frequency
VOC	volatile organic compound
Weaver's Cove	Weaver's Cove Energy
y ³	cubic yards