PUBLIC DISCLOSURE VERSION

SOUTHERN NUCLEAR OPERATING COMPANY

Vogtle Early Site Permit Application

Part 3
Environmental Report

Revision 2

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Acronyms and Abbreviations (Sheet 1 of 4)

AADT	Average Annual DailyTraffic
ABWR	Advanced Boiling Water Reactor
ACT	Alabama-Coosa-Tallapoosa
ADCNR	Alabama Department of Conservation and Natural Resources
ADEM	Alabama Department of Environmental Management
AEA	Atomic Energy Act
AEC	Atomic Energy Commission
AECL	Atomic Energy of Canada, Limited
AFUDC	Allowance for Funds Used During Construction
ALARA	as low as reasonably achievable
ANS	Academy of Natural Sciences of Philadelphia
APC	Alabama Power Company
AQCR	Air Quality Control Region
ARLH	Alabama Register of Landmarks and Heritage
Btu	British thermal unit
CDF	core damage frequency
CEDE	committed effective dose equivalent
CEQ	Council on Environmental Quality
cfs	cubic feet per second
Ci/MTU	curies per metric ton uranium
CO	carbon monoxide
COL	combined license
CVS	Chemical and Volume Control System
CWA	Clean Water Act
CWIS	Cooling Water Intake Structures
CWS	Circulating Water System
D&D	Decontamination and Dismantlement
DAW	Dry Active Waste Building
DB	dry-bulb
dB	decibels
DBT	design-base tornado
DCD	Design Control Document
DHR	Department of Human Resources
DNR	Department of Natural Resources
DOE	U.S. Department of Energy
DOT	Department of Transportation
DSM	demand-side management
EAB	Exclusion Area Boundary
EDE	effective dose equivalent

Acronyms and Abbreviations (Sheet 2 of 4)

EIA	U. S. Energy Information Administration
EPA	Environmental Protection Agency
EPD	Environmental Protection Division
EPRI	Electric Power Research Institute
ER	environmental report
ESBWR	Economic Simplified Boiling Water Reactor
ESP	early site permit
FAA	Federal Aviation Administration
FES	Final Environmental Statement
FNP	Farley Nuclear Plant
FPR	Fiberglass-reinforced Plastic
fps	feet per second
FR	Federal Register
FRP	Facility Response Plan
GATT	General Agreement on Tariffs and Trade
GDNR	Georgia Department of Natural Resources
GDOT	Georgia Department of Transportation
GE	General Electric
GEIS	Generic Environmental Impact Statement
GEPD	Georgia Environmental Protection Division
GI-LLI	Gastrointestinal-lining of lower intestine
GIS	geographic information system
GPC	Georgia Power Company
gpd	gallons per day
gpm	gallons per minute
GPSC	Georgia Public Service Commission
GTC	Georgia Transmission Corporation
HLW	high level waste
HNP	Hatch Nuclear Plant
NRHP	National Register of Historical Places
HVAC	Heating, ventilation, air conditioning [system]
IAEA	International Atomic Energy Agency
ICRP	International Commission on Radiation Protection
iDEN	[Motorola] integrated digital enhanced network
IGCC	Integrated Gasification Combined Cycle
IRP	integrated resource plan
ISFSI	Independent Spent Fuel Storage Installation
JFD	joint frequency distribution
kWh	kilowatt hour
lb	pound
LCD	local climatological data
LLW	Low-level radioactive waste

Acronyms and Abbreviations (Sheet 3 of 4)

LPGS	Liquid Pathway Generic Study
LPZ	low population zone
LWA	limited work authorization
LWR	light water reactor
MAAP	Modular Accident Analysis Program
MCWB	mean coincident wet-bulb
MDCC	Meteorological Data Collection Center
MDCT	Mechanical Draft Wet Cooling Tower
MEAG	Municipal Electric Authority of Georgia
MEI	maximally exposed individual
MGD	million gallons per day
Mrem	millirem
msl	Mean Sea Level
MSW	municipal solid wastes
MTU	metric tons of uranium
MWe	megawatt
NAAQS	National Ambient Air Quality Standards
NAFTA	North American Fee Trade Agreement
NCDC	National Climatic Data Center
NDCT	Natural Draft Wet Cooling Tower
NEHS	National Institute of Environmental Health Sciences
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Council, Inc.
NESC	National Electrical Safety Code
NMFS	National Marine Fisheries Services
NOAA	National Oceanic and Atmospheric Administration
NOx	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRC	Nuclear Regulatory Commission
NRHP	National Register of Historic Places
NSPS	New Source Performance Standard
NSSS	Nuclear Steam Supply System
NWS	National Weather Service
OPC	Oglethorpe Power Corporation
PCS	Passive Containment Cooling System
PFBC	pressurized fluidized bed boiler
PM	particulate matter
PRA	probabilistic risk assessment
PVC	polyvinyl chloride
PT	participant test
QA	quality assurance
RCRA	Resource Conservation and Recovery Act

Acronyms and Abbreviations (Sheet 4 of 4)

RCS	reactor coolant system
REMP	Radiological Environmental Monitoring Program
RIM	Rate impact measure
RTP	Rated Thermal Power
SAMA	severe accident mitigation alternatives
SCDHEC	South Carolina Department of Health and Environmental Control
SCE&G	South Carolina Electric and Gas
scfm	standard cubic feet per minute
SCR	selective catalytic reduction
SCT	societal cost test
SERC	Southeastern Electric Reliability Council, Inc.
SERCC	Southeast Regional Climate Center
SG	steam generators
SMZ	Streamside Management Zone
SNC	Southern Nuclear Operating Company
SO_2	sulfur dioxide
SPCCP	Spill Prevention, Control, and Countermeasures Plan
SRP	Standard Review Plan
SRS	Savannah River Site
SSC	Structures, systems, and components
STEP	sales taxes for educational purposes
SWS	service water system
TCS	traffic count sections
TEDE	total effective dose equivalent
TLD	thermoluminescent dosimeter
TRC	total recordable cases
TRC	total resource cost
TRU	transuranic
TSC	Technical Support Center
UHS	ultimate heat sink
USACE	U.S. Army Corps of Engineers
USAR	updated safety analysis report
USCB	US Census Bureau
USDA	US Department of Agriculture
USEPA	US Environmental Protection Agency
USFWS	US Fish and Wildlife Service
USGS	US Geological Survey
UTM	Universal Transverse Mercator
VEGP	Vogtle Electric Generating Plant
WINGS	Wildlife Incentives for Non-Game and Game Species
WMA	Wildlife Management Area

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