ENCLOSURE 5

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 AND 2
NRC DOCKETS 50-325 & 50-324
OPERATING LICENSES DPR-71 & DPR-62
REQUEST FOR LICENSE AMENDMENT
DELETION OF ENVIRONMENTAL TECHNICAL SPECIFICATIONS

MARKED-UP TECHNICAL SPECIFICATION PAGES - UNIT 1

APPENDIX B

TO FACILITY OPERATING LICENSE DPR-~~62~~ 71

FOR THE

BRUNSWICK STEAM ELECTRIC PLANT

UNITS 1 AND 2

CAROLINA POWER AND LIGHT COMPANY

DOCKET NOS. 50-324 AND 50-325

DELETE

RETYPED TECH. SPECS.
Updated Thru. Amend. 53

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 & 2

ENVIRONMENTAL TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

DELETE

DELETE

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 & 2

ENVIRONMENTAL TECHNICAL SPECIFICATIONS

1.0 DEFINITIONS

Environmental Technical Specification (ETS) - Refers to all of the information concerning any limitations, conditions, and requirements imposed which are considered necessary for the protection of the environment. There are four types of Environmental Technical Specifications: Environmental Protection Conditions, Environmental Surveillance, Special Surveillance and Study Activities, and Administrative Controls.

Environmental Protection Condition (EPC) - The environmental protection conditions specify acceptable levels of a system performance or specify methods for limiting and regulating releases into the environment.

Environmental Protection Limit (EPL) - An environmental protection limit is a quantitative limit applied to a release to the environment which, when administrated by an EPC, should not result in unacceptable environmental impacts.

Circulating Water System - Collectively, the intake and discharge canals, and the condensers which are employed to condense the exhaust steam.

Intake Temperature - Temperature of the circulating water prior to entering the condenser.

Discharge Temperature - temperature of the circulating water at the discharge pumping station.

Liquid Plant Effluent - The circulating water leaving the discharge pipes offshore from the ocean pumping station.

Residual Chlorine - The sum of free and combined chlorine remaining in the water after the biological and chemical demand is satisfied.

RETYPED TECH. SPECS.
Updated Thru. Amend. 53

DELETE

National Power Emergency - Any event causing authorized federal officials to require CP&L to supply power within or without their distribution area.

Regional Emergency - Any of the following occurrences within the States of North and South Carolina:

1) A catastrophic natural disaster such as flood, tornado, hurricane, etc.
2) Other emergencies declared by municipal, county, state, or federal officials requiring an uninterrupted source of power.
3) Anytime the health, safety, or welfare of the public may be endangered by the inability of Carolina Power & Light to supply electricity, as determined by municipal, county, state, or federal officials.

Reactor Emergency - An unanticipated equipment malfunction or other event that requires immediate remedial action to avoid endangering the public health or welfare.

Environmental Event - An event resulting in an environmental protection condition or limit being exceeded.

Known Radioactive Source - Either a calibrated sealed source or an unsealed source that is prepared either by taking a measured amount from a standard solution of radioactive materials or a measured amount from a solution in which the radioactivity content has been documented using an instrument with a calibration traceable to the National Bureau of Standards.

Site - The Brunswick Steam Electric Plant, Units 1 and 2.

Onsite - Any area included within CP&L-owned property that is contiguous with the plant structure proper and other plant associated facilities.

Offsite - All properties or areas not considered onsite.

Site Release - Refers to the combined releases of radioactive materials made from Units 1 and 2 to an area off-site and is determined by multiplying the per reactor releases by the number of licensed reactors at the site.

Normal Power Operation - Operation of the plant between 2% and 100% of rated thermal power in a nonemergency situation, using normal operating procedures.

DELETE

RETYPED TECH. SPECS.

2.0 ENVIRONMENTAL PROTECTION CONDITIONS	3.0 SURVEILLANCE REQUIREMENTS

General: During a national power emergency, regional emergency, or reactor emergency, when the health, safety, or welfare of the public may be endangered by the inability of Carolina Power & Light Company to supply electricity, the protection limits provided in these environmental technical specifications shall be inapplicable. During such emergencies, however, the protection limits shall not be exceeded except as is necessitated by the emergency.

Certain Environmental Protection Conditions and Surveillance Requirements are specified in the effective National Pollutant Discharge Elimination System (NPDES) permit issued by the State of North Carolina, Department of Natural Resources and Community Development, Division of Environmental Management. This agency is responsible for regulation of matters involving thermal discharges, chlorine, normalizer tank pH, and piezometric head.

2.1 THERMAL
Deleted

2.1.1 Maximum Temperature Rise
Deleted

2.1.2 Rate of Change of Discharge Temperature
Deleted

2.1.3 Heat Treatment of Circulating Water System
Deleted

2.2 CHEMICAL
Deleted

2.2.1 Chlorine
Deleted

2.2.2 Other Chemicals
Deleted

2.2.3 Hydrogen Ion
Deleted

NOTE: Pages 2-2 through 2-5 have been deleted.

3.1 THERMAL
Deleted

3.1.1 Maximum Temperature Rise
Deleted

3.1.2 Rate of Change of Discharge Temperature
Deleted

3.1.3 Heat Treatment of Circulating Water System
Deleted

3.2 CHEMICAL
Deleted

3.2.1 Chlorine
Deleted

3.2.2 Other Chemicals
Deleted

3.2.3 Hydrogen Ion
Deleted

DELETE

2.0 ENVIRONMENTAL PROTECTION CONDITIONS	3.0 SURVEILLANCE REQUIREMENTS

2.3 HYDRAULIC

2.3.1 Water Level in the Discharge Canal

Objective: To minimize impact of the discharge canal on the local groundwater supply.

Specification: Water level in the discharge canal shall normally be maintained between +3.5 feet msl and +5.5 feet msl at the discharge weir. These limits may be exceeded as required either for plant maintenance or as a result of natural conditions such as heavy rainfall which is beyond the control of plant personnel.

2.3.2 Piezometric Head

Deleted

3.3 HYDRAULIC

3.3.1 Water Level in the Discharge Canal

Specification: Water level in the discharge canal near the plant shall be monitored daily.

3.3.2 Piezometric Head

Deleted

DELETE

2.0 ENVIRONMENTAL PROTECTION CONDITIONS

2.4 METEOROLOGY

Objective: The objective of meteorological monitoring is to measure and document critical parameters to be used in estimating potential radiation doses to the public.

Specification: The meteorological monitoring program shall consist of instrumentation capable of measuring wind speed and wind direction at approximately 10-meter and 100-meter elevations, temperature difference between the same two elevations on a tower, and dew point. Wind and temperature data will be transmitted to the reactor control room at least once each hour. In the event the computer-based data acquisition system is out of service for more than 24 hours, the wind and temperature data will be obtained by manually dialing the tower once per shift and at least hourly during any periods of planned batch or accidental radiological releases.

3.0 SURVEILLANCE REQUIREMENTS

3.4 METEOROLOGY

Specification: Meteorological data will be summarized in a format consistent with the recommendations of Regulatory Guide 1.23. Data summaries shall be submitted to the Director of the Regional Office of Inspection and Enforcement as outlined in Appendix A, Specification 6.9.1.10. If the outage time of wind instruments at either elevation, both temperature difference systems, or the dew point sensor exceeds seven days, the total outage time and dates of the outage and the instruments involved shall be reported within 30 days of the beginning of the outage to the Director of the Regional Office of Inspection and Enforcement.

DELETE

ENCLOSURE 6

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 AND 2
NRC DOCKETS 50-325 & 50-324
OPERATING LICENSES DPR-71 & DPR-62
REQUEST FOR LICENSE AMENDMENT
DELETION OF ENVIRONMENTAL TECHNICAL SPECIFICATIONS

MARKED-UP TECHNICAL SPECIFICATION PAGES - UNIT 2

APPENDIX B

TO FACILITY OPERATING LICENSE DPR-62

FOR THE

BRUNSWICK STEAM ELECTRIC PLANT

UNITS 1 AND 2

CAROLINA POWER AND LIGHT COMPANY

DOCKET NOS. 50-324 AND 50-325

DELETE

RETYPED TECH. SPECS.
Updated Thru. Amend. 78

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 & 2

ENVIRONMENTAL TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

DELETE

DELETE

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 & 2
ENVIRONMENTAL TECHNICAL SPECIFICATIONS

1.0 DEFINITIONS

Environmental Technical Specification (ETS) - Refers to all of the information concerning any limitations, conditions, and requirements imposed which are considered necessary for the protection of the environment. There are four types of Environmental Technical Specifications: Environmental Protection Conditions, Environmental Surveillance, Special Surveillance and Study Activities, and Administrative Controls.

Environmental Protection Condition (EPC) - The environmental protection conditions specify acceptable levels of a system performance or specify methods for limiting and regulating releases into the environment.

Environmental Protection Limit (EPL) - An environmental protection limit is a quantitative limit applied to a release to the environment which, when administrated by an EPC, should not result in unacceptable environmental impacts.

Circulating Water System - Collectively, the intake and discharge canals, and the condensers which are employed to condense the exhaust steam.

Intake Temperature - Temperature of the circulating water prior to entering the condenser.

Discharge Temperature - Temperature of the circulating water at the discharge pumping station.

Liquid Plant Effluent - The circulating water leaving the discharge pipes offshore from the ocean pumping station.

Residual Chlorine - The sum of free and combined chlorine remaining in the water after the biological and chemical demand is satisfied.

DELETE

1.0 DEFINITIONS (continued)

National Power Emergency - Any event causing authorized federal officials to require CP&L to supply power within or without their distribution area.

Regional Emergency - Any of the following occurrences within the States of North and South Carolina:

1) A catastrophic natural disaster such as flood, tornado, hurricane, etc.
2) Other emergencies declared by municipal, county, state, or federal officials requiring an uninterrupted source of power.

3) Anytime the health, safety, or welfare of the public may be endangered by the inability of Carolina Power & Light to supply electricity, as determined by municipal, county, state, or federal officials.

Reactor Emergency - An unanticipated equipment malfunction or other event that requires immediate remedial action to avoid endangering the public health or welfare.

Environmental Event - An event resulting in an environmental protection condition or limit being exceeded.

Known Radioactive Souce - Either a calibrated sealed source or an unsealed source that is prepared either by taking a measured amount from a standard solution of radioactive materials or a measured amount from a solution in which the radioactivity content has been documented using an instrument with a calibration traceable to the National Bureau of Standards

Site - The Brunswick Steam Electric Plant, Units 1 and 2.

Onsite - Any area included within CP&L-owned property that is contiguous with the plant structure proper and other plant associated facilities.

Offsite - All properties or areas not considered onsite.

RETYPED TECH. SPECS.
Updated Thru. Amend. 78

Site Release - Refers to the combined releases of radioactive materials made from Units 1 and 2 to an area offsite and is determined by multiplying the per reactor releases by the number of licensed reactors at the site.

Normal Power Operation - Operation of the plant between 2% and 100% of rated thermal power in a nonemergency situation, using normal operating procedures.

DELETE

RETYPED TECH. SPECS.
Updated Thru. Amend. 78

2.0 ENVIRONMENTAL PROTECTION CONDITIONS	3.0 SURVEILLANCE REQUIREMENTS

General: During a national power emergency, regional emergency, or reactor emergency, when the health, safety, or welfare of the public may be endangered by the inability of Carolina Power & Light Company to supply electricity, the protection limits provided in these environmental technical specifications shall be inapplicable. During such emergencies, however, the protection limits shall not be exceeded except as is necessitated by the emergency.

Certain Environmental Protection Conditions and Surveillance Requirements are specified in the effective National Pollutant Discharge Elimination System (NPDES) permit issued by the State of North Carolina, Department of Natural Resources and Community Development, Division of Environmental Management. This agency is responsible for regulation of matters involving thermal discharges, chlorine, normalizer tank pH, and piezometric head.

DELETE

2.1 THERMAL
Deleted

3.1 THERMAL
Deleted

2.1.1 Maximum Temperature Rise
Deleted

3.1.1 Maximum Temperature Rise
Deleted

2.1.2 Rate of Change of Discharge Temperature
Deleted

3.1.2 Rate of Change of Discharge Temperature
Deleted

2.1.3 Heat Treatment of Circulating Water System
Deleted

3.1.3 Heat Treatment of Circulating Water System
Deleted

2.2 CHEMICAL
Deleted

3.2 CHEMICAL
Deleted

2.2.1 Chlorine
Deleted

3.2.1 Chlorine
Deleted

2.2.2 Other Chemicals

3.2.2 Other Chemicals
Deleted

2.2.3 Hydrogen Ion
Deleted

3.2.3 Hydrogen Ion
Deleted

NOTE: Pages 2-2 through 2-5 have been deleted.

2.0 ENVIRONMENTAL PROTECTION CONDITIONS	3.0 SURVEILLANCE REQUIREMENTS

2.3 HYDRAULIC

2.3.1 Water Level in the Discharge Canal

Objective: To minimize impact of the discharge canal on the local groundwater supply.

Specification: Water level in the discharge canal shall normally be maintained between +3.5 feet msl and +5.5 feet msl at the discharge weir. These limits may be exceeded as required either for plant maintenance or as a result of natural conditions such as heavy rainfall which is beyond the control of plant personnel.

2.3.2 Piezometric Head

Deleted

3.3 HYDRAULIC

3.3.1 Water Level in the Discharge Canal

Specification: Water level in the discharge canal near the plant shall be monitored daily.

3.3.2 Piezometric Head

Deleted

DELETE

2.0 ENVIRONMENTAL PROTECTION CONDITIONS

3.0 SURVEILLANCE REQUIREMENTS

2.4 METEOROLOGY

Objective: The objective of meteorological monitoring is to measure and document critical parameters to be used in estimating potential radiation doses to the public.

Specification: The meteorological monitoring program shall consist of instrumentation capable of measuring wind speed and wind direction at approximately 10-meter and 100-meter elevations, temperature difference between the same two elevations on a tower, and dew point. Wind and temperature data will be transmitted to the reactor control room at least once each hour. In the event the computer-based data acquisition system is out of service for more than 24 hours, the wind and temperature data will be obtained by manually dialing the tower once per shift and at least hourly during any periods of planned batch or accidental radiological releases.

3.4 METEOROLOGY

Specification: Meteorological data will be summarized in a format consistent with the recommendations of Regulatory Guide 1.23. Data summaries shall be submitted to the Director of the Regional Office of Inspection and Enforcement as outlined in Appendix A, Specification 6.9.1.10. If the outage time of wind instruments at either elevation, both temperature difference systems, or the dew point sensor exceeds seven days, the total outage time and dates of the outage and the instruments involved shall be reported within 30 days of the beginning of the outage to the Director of the Regional Office of Inspection and Enforcement.

DELETE

4.0 Environmental Monitoring

4.1 Nonradiological Monitoring

The nonradiological biological monitoring requirements are specified in the effective National Pollutant Discharge Elimination System (NPDES) permit issued by the State of North Carolina, Department of Natural Resources and Community Development, Division of Environmental Management. This agency is respo sible for regulation of matters involving water quality and aquatic biota.

DELETE

NOTE: Pages 4-2 through 4-5a have been deleted.

ENCLOSURE 7

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 AND 2
NRC DOCKETS 50-325 & 50-324
OPERATING LICENSES DPR-71 & DPR-62
REQUEST FOR LICENSE AMENDMENT
DELETION OF ENVIRONMENTAL TECHNICAL SPECIFICATIONS

TYPED TECHNICAL SPECIFICATION PAGES - UNIT 1

APPENDIX B

TO FACILITY OPERATING LICENSE DPR-71

FOR THE

BRUNSWICK STEAM ELECTRIC PLANT

UNITS 1 AND 2

CAROLINA POWER AND LIGHT COMPANY

DOCKET NOS. 50-324 AND 50-325

APPENDIX B, ENVIRONMENTAL TECHNICAL SPECIFICATIONS HAS BEEN DELETED.

ENCLOSURE 8

BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 AND 2
NRC DOCKETS 50-325 & 50-324
OPERATING LICENSES DPR-71 & DPR-62
REQUEST FOR LICENSE AMENDMENT
DELETION OF ENVIRONMENTAL TECHNICAL SPECIFICATIONS

TYPED TECHNICAL SPECIFICATION PAGES - UNIT 2

APPENDIX B

TO FACILITY OPERATING LICENSE DPR-62

FOR THE

BRUNSWICK STEAM ELECTRIC PLANT

UNITS 1 AND 2

CAROLINA POWER AND LIGHT COMPANY

DOCKET NOS. 50-324 AND 50-325

APPENDIX B, ENVIRONMENTAL TECHNICAL SPECIFICATIONS HAS BEEN DELETED.