CP&L
A Progress Energy Company

APR 2 3 2003

SERIAL: BSEP 03-0066

10 CFR 50, Appendix E

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
NOTIFICATION OF EMERGENCY RESPONSE DATA SYSTEM MODIFICATION

Ladies and Gentlemen:

On June 9, 1992 (Serial: NLS-92-140), Progress Energy Carolinas Inc. (PEC) submitted the Emergency Response Data System (ERDS) Data Point Library for the Brunswick Steam Electric Plant, Units 1 and 2. In accordance with 10 CFR 50, Appendix E, Section VI.3.a, this letter provides notification of a change to a transmitted data points in the Unit 1 and Unit 2 ERDS Data Point Libraries.

As a result of installation of a new digital Power Range Neutron Monitoring (PRNM) system on Unit 2, the number of Average Power Range Monitor (APRM) inputs to data point C51C0010, "NI POWER RNG," was changed from six to four. This change was implemented on March 30, 2003.

Also, on March 30, 2003, PEC implemented extended power uprate on Unit 2. As a result, the "Engr Units Conversion" field for data point C51C0010, has been revised to reflect the uprated thermal power level.

PEC also upgraded the feedwater control system. As a result of this modification, maximum instrument range for data point C51C8003, "MAIN FD FLOW," was changed from 0.120E+02 to 0.160E+02 and a note was added to indicate that this is the actual field instrument range. This modification was completed on March 29, 2003. A similar change to the instrument range for Unit 1 data point C51C8003 was made in March 2002.

The enclosure to this letter provides revised Data Point Library Reference File sheets for Unit 1 data point C51C8003, and Unit 2 data points C51C0010 and C51C8003.

Brunswick Nuclear Plant
P.O. Box 10429
Southport, NC 28461

A026

Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

Edward T. O'Neil
Manager - Support Services
Brunswick Steam Electric Plant

MAT/mat

Enclosure:
Revised Data Point Library File Sheet - Unit 1 - Data Point C51C8003
Revised Data Point Library File Sheet - Unit 2 - Data Point C51C0010
Revised Data Point Library File Sheet - Unit 2 - Data Point C51C8003

cc:

U. S. Nuclear Regulatory Commission, Region II
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U. S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission **(Electronic Copy Only)**
ATTN: Ms. Brenda L. Mozafari (Mail Stop OWFN 8G9)
11555 Rockville Pike
Rockville, MD 20852-2738

Ms. Jo A. Sanford
Chair - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510

REVISED DATA POINT LIBRARY FILE SHEETS
UNIT 1 - C51C8003
UNIT 2 - C51C0010 & C51C8003

DATA POINT LIBRARY REFERENCE FILE

Date:	03/28/02
Reactor Unit:	BK1
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN FD FLOW
Point ID:	C51C8003
Plant Spec Point Desc.:	TOTAL FEEDWATER FLOW SMOOTHED
Generic/Cond Desc.:	Feedwater Flow into the Reactor System
Analog/Digital:	A
Engr Units/Dig States:	MLB/HR
Engr Units Conversion:	Square root (feedwater flow)
Minimum Instr Range:	0.00E+00
Maximum Instr Range:	0.160E+02 (actual field instrument range)
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2 {feedwater flow inputs}
How Processed:	Sum smoothed, density compensate flows
Sensor Locations:	FE @ #5 FW heater outlet; FT @ TB 20' el
Alarm/Trip Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A, need $\geq$ 2 inputs for GOOD
Temperature Compensation For DP Transmitters:	Y
Level Reference Leg:	N/A
Unique System Desc.:	Processing includes smoothing with a 30
	Second time constant and compensation for
	Feedwater temperature and reactor pressure.
	Feed flow input points default to actual
	Values when inputs exceed signal ranges.

DATA POINT LIBRARY REFERENCE FILE

Date:	03/30/03
Reactor Unit:	BK2
Data Feeder:	N/A
NRC ERDS Parameter:	NI POWER RNG
Point ID:	C51C0010
Plant Spec Point Desc.:	RX VALIDATED POWER - - READOUT
Generic/Cond Desc.:	Nuclear Instruments, Power Range
Analog/Digital:	A
Engr Units/Dig States:	%
Engr Units Conversion:	Linear (APRM reading); 1% = 29.23 MWt
Minimum Instr Range:	0.00E+00
Maximum Instr Range:	0.125E+03
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4 (APRM inputs)
How Processed:	APRM Weighted average * Gain Adj Factor
Sensor Locations:	APRM signals to Control Room meters
Alarm/Trip Set Points:	N/A
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A, need $\geq$ 2 inputs for GOOD
Temperature Compensation For DP Transmitters:	N/A
Level Reference Leg:	N/A
Unique System Desc.:	Gain Adj Factor is processed from various heat-balance related sensors. APRM input points default to actual values when inputs exceed signal ranges.

DATA POINT LIBRARY REFERENCE FILE

Date:	03/29/03
Reactor Unit:	BK2
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN FD FLOW
Point ID:	C51C8003
Plant Spec Point Desc.:	TOTAL FEEDWATER FLOW SMOOTHED
Generic/Cond Desc.:	Feedwater Flow into the Reactor System
Analog/Digital:	A
Engr Units/Dig States:	MLB/HR
Engr Units Conversion:	Square root (feedwater flow)
Minimum Instr Range:	0.00E+00
Maximum Instr Range:	0.160E+02 (actual field instrument range)
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	2 {feedwater flow inputs}
How Processed:	Sum smoothed, density compensate flows
Sensor Locations:	FE @ #5 FW heater outlet; FT @ TB 20' el
Alarm/Trip Set Points:	LOW = 0.300E+1
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A, need $\geq$ 2 inputs for GOOD
Temperature Compensation For DP Transmitters:	Y
Level Reference Leg:	N/A
Unique System Desc.:	Processing includes smoothing with a 30 Second time constant and compensation for Feedwater temperature and reactor pressure. Feed flow input points default to actual Values when inputs exceed signal ranges.