



AEP:NRC:1163B
10 CFR Part 50

Donald C. Cook Nuclear Plant Units 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
EMERGENCY RESPONSE DATA SYSTEM (ERDS)

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Attn: T. E. Murley

October 1, 1992

Dear Dr. Murley:

On August 28, 1992, R. B. Gridley of my staff discussed with Mr. J. R. Jolicoeur the approval status of our Emergency Response Data System Data Point Library (DPL) submitted to the NRC in letter AEP:NRC:1163A. Mr. Jolicoeur requested that we provide more detailed information on the level instrumentation. The specific data requested were:

1. RVLIS (Reactor Vessel Level Indication System):
provide zero point of reference
1% level = how many inches
2. Steam Generator Level:
provide % level at top of U-tubes
1% level = how many inches
3. Pressurizer Level:
provide % level at top of heaters
1% level = how many inches
4. Containment Sump Levels:
provide sump volume as a function of % level
1% level = how many inches
5. Borated Water Storage Tank Level:
provide the usable volume remaining at 0% level
1% = how many inches
1% = how many gallons

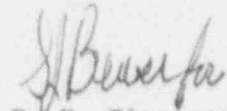
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In addition, it was pointed out that our steam generator blowdown radiation data would be the same for all four steam generators because the data are measured downstream of a header. Mr. Jolicoeur requested we send only one data point for this value rather than four.

Attached are the revised pages to the DPL that incorporate the requested information. Please note that for RVLIS it was not possible to provide a direct correlation between the percentage level and the level in inches. Instead, physical parameters at specific percentage levels were provided.

Sincerely,



E. E. Fitzpatrick
Vice President

edg

Attachment

cc: D. H. Williams, Jr.
A. A. Blind - Bridgman
J. R. Padgett
G. Charnoff
A. B. Davis - Region III
NRC Resident Inspector - Bridgman
NFEM Section Chief
J. R. Jolicoeur

AEP:NRC:1163B

ATTACHMENT

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: REAC VES LEV
 POINT ID: U1602
 PLANT SPEC POINT DESC: AVERAGE RVLIS NARROW RANGE
 GENERIC/CCLD DESC: REACTOR VESSEL WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: 1
 ENGR UNITS CONVERSION: N/A
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 120.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: SEE UNIQUE SYSTEM DESCRIPTION BELOW
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSLD: AVERAGE
 SENSOR LOCATION: TAPS AT BOTTOM AND TOP OF REACTOR VESSEL
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: NLI-110, NLI-111 ONLY VALID WHEN RCP'S ARE OFF, WILL
 BE PEGGED HIGH WHEN RCP'S RUNNING
 60% - TOP OF FUEL
 39% - 3.5 FEET ABOVE BOTTOM OF FUEL
 75% - TOP OF HOT LEGS
 0% - BOTTOM OF VESSEL

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: REAC VES LEV
 POINT ID: U1601
 PLANT SPEC POINT DESC: AVERAGE RV. IS WIDE RANGE
 GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: N/A
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 120.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: SEE UNIQUE SYSTEM DESCRIPTION BELOW
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: TAPS AT BOTTOM AND TOP OF REACTOR VESSEL
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: NLI-130, NLI-131 ONLY VALID WHEN RCP'S ARE RUNNING
 44% LEVEL = 50% VOID FRACTION, 4 RCP'S RUNNING
 30% LEVEL = 50% VOID FRACTION, 3 RCP'S RUNNING
 20% LEVEL = 50% VOID FRACTION, 2 RCP'S RUNNING
 13% LEVEL = 50% VOID FRACTION, 1 RCP RUNNING
 25% LEVEL = 25% VOID FRACTION, 1 RCP RUNNING

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SG LEVEL 1/A
 POINT ID: L0403A
 PLANT SPEC POINT DESC: STM GEN 1 WIDE RNG L
 GENERIC/COND DESC: STEAM GENERATOR 1 (OR A) WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.75 INCHES
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: BLI-110
 70% - TOP OF U-TUBES

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SG LEVEL 2/B
 POINT ID: LO423A
 PLANT SPEC POINT DESC: STM GEN 2 WIDE RNG L
 GENERIC/COND DESC: STEAM GENERATOR 2 (OR B) WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.75 INCHES
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: BLI-120
 70% - TOP OF U-TUBES

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SG LEVEL 3/C
 POINT ID: L0443A
 PLANT SPEC POINT DESC: STM GEN 3 WIDE RNG L
 GENERIC/COND DESC: STEAM GENERATOR 3 (OR C) WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.75 INCHES
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZEPO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: BLI-130
 70% - TOP OF U-TUBES

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: SG LEVEL 4/D
 POINT ID: L0463A
 PLANT SPEC POINT DESC: STM GEN 4 WIDE RNG L
 GENERIC/COND DESC: STEAM GENERATOR A (OR D) WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.75 INCHES
 MIN INSTR RANGE: 0.0
 MAX INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: BLI-140
 70% - TOP OF U-TUBES

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: PRZR LEVEL
 POINT ID: U0483
 PLANT SPEC POINT DESC: PRESSURIZER LEVEL 1/2/3 AVG
 GENERIC JND DESC: PRIMARY SYSTEM PRESSURIZER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.27 INCHES
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 36" ABOVE BOTTOM OF PRZR VESSEL
 PROC OR SENS: P
 NUMBER OF SENSORS: 3
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: 36" ABOVE BOTTOM OF PRESSURIZER VESSEL
 ALARM/TRIP SET POINTS: 92 HIGH
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: NLP-151, NLP-152, FLP-153
 17% - TOP OF HEATERS

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: CTMNT SMP NR
 POINT ID: U1605
 PLANT SPEC POINT DESC: AVG CNTMT SUMP NR LEVEL
 GENERIC/COND DESC: CONTAINMENT SUMP NARROW RANGE LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 0=589'-5" 100=599'-8" (1% = 1.23 INCHES)
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 5 INCHES ABOVE BOTTOM OF SUMP
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: LOWER CNTMT SUMP
 ALARM/TRIP SET POINTS: 83.75 HI 8.95 LOW
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: N/A
 UNIQUE SYSTEM DESC: NLA-310, NLI-311
 approximate volume as function of level, volume
 includes lower containment and recirculation sumps
 0.0% = 4.7 cu ft
 15.4% = 22.6 cu ft
 44.7% = 623.4 cu ft
 74.0% = 1,224.2 cu ft
 91.4% = 1,239.6 cu ft

DATE: September 16, 1992
 REACTOR UNIT: CK1
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: CTMNT SMP WP
 POINT ID: U1606
 PLANT SPEC POINT DESC: AVG CTMNT SUMP WR LEVEL
 GENERIC/COND DESC: CONTAINMENT SUMP WIDE RANGE LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENCR UNITS CONVERSION: 0=599'-3" 100=614' (1% = 1.77 INCHES)
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: 0% AT ELEV. 599'-3"
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: LOWER CNTMT SUMP
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: N/A
 UNIQUE SYSTEM DESC: NLI-320, NLI-321
 approximate volume as function of level
 0.0% = 1,684 cu ft
 18.6% = 12,175 cu ft
 32.2% = 18,549 cu ft
 72.9% = 35,835 cu ft
 89.5% = 110,000 cu ft max vol of water

Deleted point: STM GEN 2 BLOWDOWN RAD LEVEL. Blowdown radiation level is measured in header down stream of individual loops. NRC Computer would not accept duplicate point IDs.

Deleted point: STM GEN 3 BLOWDOWN RAD LEVEL. Blowdown radiation level is measured in header down stream of individual loops. NRC Computer would not accept duplicate point IDs.

Deleted point: STM GEN 4 BLOWDOWN RAD LEVEL. Blowdown radiation level is measured in header down stream of individual loops. NRC Computer would not accept duplicate point IDs.

DATE: September 16, 1992
REACTOR UNIT: CK1
DATA FEEDER: N/A
NRC ERDS PARAMETER: BWST LEVEL
POINT ID: U1611
PLANT SPEC POINT DESC: AVERAGE RWST LEVEL
GENERIC/COND DESC: BORATED WATER STORAGE TANK LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: %
ENGR UNITS CONVERSION: 1% = 3.63 INCHES 1% = 4094.76 GALLONS
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: COMPLX
REFERENCE POINT NOTES: 0% = BOTTOM OF DISCHARGE PIPE
PROC OR SENS: P
NUMBER OF SENSORS: 2
HOW PROCESSED: AVERAGE
SENSOR LOCATION: TAPS ON THE WALLS OF THE RWST
ALARM/TRIP SET POINTS: 98.3 HIGH 32.2 LOW 9.1 LOW-LOW
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
TEMPERATURE COMPENSATION
FOR DP TRANSMITTER: Y
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: ILS-950, ILS-951

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: REAC VES LEV
 POINT ID: U1602
 PLANT SPEC POINT DESC: AVERAGE RVLIL NARROW RANGE
 GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: N/A
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 120.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: SEE UNIQUE SYSTEM DESCRIPTION BELOW
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: TAPS AT BOTTOM AND TOP OF REACTOR VESSEL
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: NLI-110, NLI-111 ONLY VALID WHEN RCP'S ARE OFF, WILL
 BE PEGGED HIGH WHEN RCP'S RUNNING
 60% - TOP OF FUEL
 39% - 3.5 FEET ABOVE BOTTOM OF FUEL
 75% - TOP OF HOT LEGS
 C% - BOTTOM OF VESSEL

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: REAC VES LEV
 POINT ID: U1601
 PLANT SPEC POINT DESC: AVERAGE RVLIS WIDE RANGE
 GENERIC/COND DESC: REACTOR VESSEL WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: N/A
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 120.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: SEE UNIQUE SYSTEM DESCRIPTION BELOW
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: TAPS AT BOTTOM AND TOP OF REACTOR VESSEL
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: NLI-130, NLI-131 ONLY VALID WHEN RCP'S ARE RUNNING
 44% LEVEL = 50% VOID FRACTION, 4 RCP'S RUNNING
 30% LEVEL = 50% VOID FRACTION, 3 RCP'S RUNNING
 20% LEVEL = 50% VOID FRACTION, 2 RCP'S RUNNING
 13% LEVEL = 50% VOID FRACTION, 1 RCP RUNNING
 25% LEVEL = 75% VOID FRACTION, 1 RCP RUNNING

DATE: September 16, 1992
REACTOR UNIT: CK2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 1/A
POINT ID: L0403A
PLANT SPEC POINT DESC: STM GEN 1 WIDE RNG L
GENERIC/COND DESC: STEAM GENERATOR 1 (OR A) WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: %
ENGR UNITS CONVERSION: 1% = 5.75 INCHES
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: COMPLX
REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
PROC OR SENS: S
NUMBER OF SENSORS: 1
HOW PROCESSED: N/A
SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE
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
TEMPERATURE COMPENSATION
FOR DP TRANSMITTER: Y
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: BLI-110
70% - TOP OF U-TUBES

DATE: September 16, 1992
REACTOR UNIT: CK2
DATA FEEDER: N/A
NRC ERDS PARAMETER: SG LEVEL 2/B
POINT ID: LO423A
PLANT SPEC POINT DESC: STM GEN 2 WIDE RNG L
GENERIC/COND DESC: STEAM GENERATOR 2 (OR B) WATER LEVEL
ANALOG/DIGITAL: A
ENGR UNITS/DIG STATES: %
ENGR UNITS CONVERSION: 1% = 5.75 INCHES
MINIMUM INSTR RANGE: 0.0
MAXIMUM INSTR RANGE: 100.0
ZERO POINT REFERENCE: COMPLX
REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
PROC OR SENS: S
NUMBER OF SENSORS: 1
HOW PROCESSED: N/A
SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE
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
TEMPERATURE COMPENSATION
FOR DP TRANSMITTER: Y
LEVEL REFERENCE LEG: WET
UNIQUE SYSTEM DESC: BLI-120
70% - TOP OF U-TUBES

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: 30 LEVEL 3/C
 POINT ID: L0443A
 PLANT SPEC POINT DESC: STM GEN 3 WIDE RNG L
 GENERIC/COND DESC: STEAM GENERATOR 3 (OR C) WATER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.75 INCHES
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE
 PROC OR SENS: S
 NUMBER OF SENSORS: 1
 HOW PROCESSED: N/A
 SENSOR LOCATION: 38.3 FT BELOW TC OF FW INLET PIPE
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: BLI-130
 70% - TOP OF U-TUBES

DATE: September 16, 1992

REACTOR UNIT: CK2

DATA FEEDER: N/A

NRC ERDS PARAMETER: SG LEVEL 4/D

POINT ID: LO463A

PLANT SPEC POINT DESC: STM GEN 4 WIDE RNG L

GENERIC/COND DESC: STEAM GENERATOR 4 (OR D) WATER LEVEL

ANALOG/DIGITAL: A

ENGR UNITS/DIG STATES: %

ENGR UNITS CONVERSION: 1% = 5.75 INCHES

MINIMUM INSTR RANGE: 0.0

MAXIMUM INSTR RANGE: 100.0

REF POINT REFERENCE: COMPLX

REFERENCE POINT NOTES: AT 0% 38.3 FT BELOW TOP OF FW INLET PIPE

PROC OR SENS: S

NUMBER OF SENSORS: 1

HOW PROCESSED: N/A

SENSOR LOCATION: 38.3 FT BELOW TOP OF FW INLET PIPE

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

TEMPERATURE COMPENSATION
FOR DP TRANSMITTER: Y

LEVEL REFERENCE LEG: WET

UNIQUE SYSTEM DESC: BLI-140
70% - TOP OF U-TUBES

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: PRZR LEVEL
 POINT ID: U0483
 PLANT SPEC POINT DESC: PRESSURIZER LEVEL 1/2/3 AVG
 GENERIC/COND DESC: PRIMARY SYSTEM PRESSURIZER LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 5.195 INCHES
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 36" ABOVE BOTTOM OF PRZR VESSEL
 PROC OR SENS: P
 NUMBER OF SENSORS: 3
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: 36" ABOVE BOTTOM OF PRESSURIZER VESSEL
 ALARM/TRIP SET POINTS: 92 HIGH
 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
 TEMPERATURE COMPENSATION
 FOR DI TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: NLP-151, NLP-152, NLP-153
 17% - TOP OF HEATERS

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: CTMNT SMP NR
 POINT ID: U1605
 PLANT SPEC POINT DESC: AVG CNTMT SUMP NR LEVEL
 GENERIC/COND DESC: CONTAINMENT SUMP NARROW RANGE LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 0=589'-5" 100=599'-8" (1% = 1.23 INCHFS)
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: AT 0% 5 INCHES ABOVE BOTTOM OF SUMP
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: LOWER CNTMT SUMP
 ALARM/TRIP SET POINTS: 83.75 HI 8.95 LOW
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: N/A
 UNIQUE SYSTEM DESC: NLA-310, NLI-311
 approximate volume as function of level, volume
 includes lower containment and recirculation sumps
 0.0% = 4.7 cu ft
 15.4% = 22.6 cu ft
 44.7% = 623.4 cu ft
 74.0% = 1,224.2 cu ft
 91.4% = 1,239.6 cu ft

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: CTMNT SMP WR
 POINT ID: U1606
 PLANT SPEC POINT DESC: AVG CTMNT SUMP WR LEVEL
 GENERIC/COND DESC: CONTAINMENT SUMP WIDE RANGE LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 0=599'-3" 100=614' (1% = 1.77 INCHES)
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: 0% AT ELEV. 599'-3"
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: LOWER CNTMT SUMP
 ALARM/TRIP LET 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: N/A
 UNIQUE SYSTEM DESC: NLI-320, NLI-321
 approximate volume as function of level
 0.0% = 1,684 cu ft
 18.6% = 12,175 cu ft
 32.2% = 18,549 cu ft
 72.9% = 36,835 cu ft
 89.8% = 110,000 cu ft max vol of water

Deleted point: STM GEN 2 BLOWDOWN RAD LEVEL. Blowdown radiation level is measured in header down stream of individual loops. NRC Computer would not accept duplicate point IDs.

Deleted point: STM GEN 3 BLOWDOWN RAD LEVEL. Blowdown radiation level is measured in header down stream of individual loops. NRC Computer would not accept duplicate point IDs.

Deleted point: STM GEN 4 BLOWDOWN RAD LEVEL. Blowdown radiation level is measured in header down stream of individual loops. NRC Computer would not accept duplicate point IDs.

DATE: September 16, 1992
 REACTOR UNIT: CK2
 DATA FEEDER: N/A
 NRC ERDS PARAMETER: BWST LEVEL
 POINT ID: U1611
 PLANT SPEC POINT DESC: AVERAGE RWST LEVEL
 GENERIC/COND DESC: BORATED WATER STORAGE TANK LEVEL
 ANALOG/DIGITAL: A
 ENGR UNITS/DIG STATES: %
 ENGR UNITS CONVERSION: 1% = 3.63 INCHES 1% = 4094.76 GALLONS
 MINIMUM INSTR RANGE: 0.0
 MAXIMUM INSTR RANGE: 100.0
 ZERO POINT REFERENCE: COMPLX
 REFERENCE POINT NOTES: 0% = BOTTOM OF DISCHARGE PIPE
 PROC OR SENS: P
 NUMBER OF SENSORS: 2
 HOW PROCESSED: AVERAGE
 SENSOR LOCATION: TAPS ON THE WALLS OF THE RWST
 ALARM/TRIP SET POINTS: 98.3 HIGH 32.2 LOW 9.1 LOW-LOW
 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
 TEMPERATURE COMPENSATION
 FOR DP TRANSMITTER: Y
 LEVEL REFERENCE LEG: WET
 UNIQUE SYSTEM DESC: ILS-950, ILS-951