

# Duquesne Light Company

Beaver Valley Power Station  
P.O. Box 4  
Shippingport, PA 15077-0004

JAMES E. CROSS  
Senior Vice President and  
Chief Nuclear Officer  
Nuclear Power Division

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L-98-064

(412) 393-5255  
Fax (412) 643-8069

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

**Subject: Beaver Valley Power Station, Unit No. 1**  
**Docket No. 50-334, License No. DPR-66**  
**Emergency Response Data System (ERDS)**

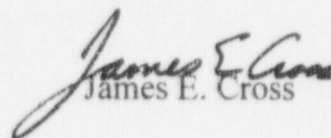
In accordance with the requirements of 10 CFR Part 50, Appendix E, Section VI.3.a and NUREG-1394, Revision 1, Section 3.6, "Administrative Implementation Requirements," the enclosed Data Point Library (DPL) changes are being submitted. Six (6) Beaver Valley Power Station (BVPS) Unit No. 1 DPLs noted below have undergone changes which affect the following Radiation Monitor High Alarm Limit values.

- Changing the Rx Coolant Letdown Hi Range from 6.0E5 to 4.0E3 CPM
- Changing the Liquid Waste Effluent from 2.0E5 to 3.0E5 CPM
- Changing the Liquid Waste Containment DN Eff from 6.0E5 to 7.0E5 CPM
- Changing the CNMT High Range RAD CH 1 from 3.00 to 200.0 R/HR
- Changing the CNMT High Range RAD CH 2 from 3.00 to 200.0 R/HR
- Changing the Condenser Air Ejector from 450.0 to 400.0 CPM

These changes are currently in effect on the BVPS plant computers which provide data to the ERDS computer.

If you have any questions concerning the DPL changes, please contact Mr. M. S. Ackerman, Manager, Safety & Licensing Department, (412) 393-5203.

Sincerely,

  
James E. Cross

9904210350 990413  
PDR ADOCK 05000334  
F PDR

c: Mr. D. S. Collins, Project Manager  
Mr. J. R. Jolicoeur, USNRC Incident Response Division  
Mr. D. M. Kern, Sr. Resident Inspector  
Mr. H. J. Miller, NRC Region I Administrator



## BEAVER VALLEY POWER STATION ERDS DATA POINT LIBRARY

BV1 ERDS INPUT

Date: 04/08/99  
 Reactor Unit: BV1  
 Data Feeder: IPC  
 NRC ERDS Parameter: RCS-LTJ-RAD1  
 Point ID: R0036A  
 Plant Spec Point Desc.: RX COOLANT LETDOWN HI RANGE  
 Generic/Cond Desc.: RAD LEVEL OF RCS LETDOWN LINE  
 Analog/Digital: A  
 Engr Units/Dig States: CPM  
 Engr Units Conversion: N/A  
 Minimum Instr Range: 10  
 Maximum Instr Range: 1E6  
 Zero Point Reference: N/A  
 Reference Point Notes: N/A  
 PROC or SENS: S  
 Number Of Sensors: 1  
 How Processed: N/A  
 Sensor Locations: SEE UNIQUE SYSTEM DESCRIPTION FIELD  
 Alarm/Trip Set Points: HI ALM @ 4.0E3 CPM/LO ALM @ -6.4E3 CPM  
 NI Detector Power Supply Cut-off Power Level: N/A  
 NI Detector Power Supply Turn-on Power Level: N/A  
 Instrument Failure Mode: LOW  
 Temperature Compensation For DP Transmitters: N  
 Level Reference Leg: N/A  
 Unique System Desc.: RM-1CH-101A MONITORS THE GROSS ACTIVITY OF THE REACTOR COOLANT (CO-60 & CS-137) BY DRAWING SAMPLES FROM THE REACTOR COOLANT LETDOWN LINE AND DELAYING THEM TO PERMIT SUFFICIENT DECAY OF THE N 16 ISOTOPE BEFORE THEY PASS BY THE DETECTORS. THIS IS AN INDICATION OF FISSION PRODUCTS PRESENT IN THE REACTOR COOLANT. THIS RADIATION MONITOR PROVIDES THE LOW AND HIGH RANGE INDICATION. A GAMMA SCINTILLATION DETECTOR MONITORS THE GROSS ACTIVITY OF THE REACTOR COOLANT BY DRAWING SAMPLES FROM THE REACTOR COOLANT LETDOWN LINE DOWNSTREAM OF THE NON-REGENERATIVE HEAT EXCHANGER. OM 43.

## BEAVER VALLEY POWER STATION ERDS DATA POINT LIBRARY

BV1 ERDS INPUT

Date: 04/08/99

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EFF-LIQ-RAD1

Point ID: R0030A

Plant Spec Point Desc.: LIQUID WASTE EFFLUENT

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED LIQUID

Analog/Digital: A

Engr Units/Dig States: CPM

Engr Units Conversion: N/A

Minimum Instr Range: 10

Maximum Instr Range: 1E6

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number Of Sensors: 1

How Processed: N/A

Sensor Locations: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: HI ALM @ 3.0E5 CPM/LO ALM @ -1600 CPM

NI Detector Power Supply Cut-off Power Level: N/A

NI Detector Power Supply Turn-on Power Level: N/A

Instrument Failure Mode: LOW

Temperature Compensation For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: RM-11W-104 MONITORS THE ACTIVITY (CO-60 & CS-137) OF ANY RADIOACTIVE LIQUID WASTE DISCHARGED FROM THE STATION. A HIGH-HIGH ACTIVITY AUTOMATICALLY TERMINATES FLOW BY CLOSING THE DISCHARGE LINE ISOLATION VALVES. A GAMMA SCINTILLATION DETECTOR MONITORS THE ACTIVITY OF RADIOACTIVE LIQUID WASTE DISCHARGED DOWNSTREAM OF THE LAST POINT OF RADIOACTIVE EFFLUENT ADDITION TO THE DISCHARGE HEADER. OP MANUAL CHAPTER 43, RM-417-1

## BEAVER VALLEY POWER STATION ERDS DATA POINT LIBRARY

## BV1 ERDS INPUT

Date: 04/08/99

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EFF-LIQ-RAD2

Point ID: Y0717A

Plant Spec Point Desc.: LIQUID WASTE CONTAINMENT DN EFF

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED LIQUID

Analog/Digital: A

Engr Units/Dig States: CPM

Engr Units Conversion: N/A

Minimum Instr Range: 10

Maximum Instr Range: 1E6

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number Of Sensors: 1

How Processed: N/A

Sensor Locations: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: HI ALM @ 7.00E5 CPM

NI Detector Power Supply Cut-off Power Level: N/A

NI Detector Power Supply Turn-on Power Level: N/A

Instrument Failure Mode: LOW

Temperature Compensation For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: RM-11W-116 CONTINUOUSLY MONITORS THE ACTIVITY (CO-60 & CS-137) OF THE EFFLUENT DOWNSTREAM OF THE LIQUID WASTE CONTAMINATED DRAINS FILTER. A HIGH-HIGH ACTIVITY WILL AUTOMATICALLY CLOSE THE ISOLATION VALVES TO TERMINATE FLOW. A GAMMA SCINTILLATION DETECTOR MONITORS THE ACTIVITY OF LIQUID WASTE CONTAMINATED DRAINS EFFLUENT DOWNSTREAM OF THE CONTAMINATED DRAINS FILTER. OP MANUAL CHAPTER 43, RM-417-1

## BEAVER VALLEY POWER STATION ERDS DATA POINT LIBRARY

BV1 ERDS INPUT  
Date: 04/08/99  
Reactor Unit: BV1  
Data Feeder: IPC  
NRC ERDS Parameter: CTMNT-RAD1  
Point ID: R0070A  
Plant Spec Point Desc.: CNMT HIGH RANGE RAD CH 1  
Generic/Cond Desc.: RADIATION LEVEL IN CONTAINMENT  
Analog/Digital: A  
Engr Units/Dig States: R/HR  
Engr Units Conversion: N/A  
Minimum Instr Range: 1  
Maximum Instr Range: 1E7  
Zero Point Reference: N/A  
Reference Point Notes: N/A  
PROC or SENS: S  
Number Of Sensors: 1  
How Processed: N/A  
Sensor Locations: SEE UNIQUE SYSTEM DESCRIPTION FIELD  
Alarm/Trip Set Points: HI ALM @ 200 R/HR  
NI Detector Power Supply Cut-off Power Level: N/A  
NI Detector Power Supply Turn-on Power Level: N/A  
Instrument Failure Mode: LOW  
Temperature Compensation For DP Transmitters: N  
Level Reference Leg: N/A  
Unique System Desc.: RM-1RM-219A FUNCTIONS AS AN ACCIDENT DETECTOR MEASURING RADIATION LEVELS INSIDE CONTAINMENT. AN ION CHAMBER DETECTOR MONITORS ACCIDENT RADIATION LEVELS INSIDE CONTAINMENT ON THE CRANE WALL ABOVE THE OPERATING FLOOR. OP MANUAL CHAPTER 43

## BEAVER VALLEY POWER STATION ERDS DATA POINT LIBRARY

BV1 ERDS INPUT

Date: 04/08/99

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: CTMNT-RAD2

Point ID: R0071A

Plant Spec Point Desc.: CNMT HIGH RANGE RAD CH 2

Generic/Cond Desc.: RADIATION LEVEL IN CONTAINMENT

Analog/Digital: A

Engr Units/Dig States: R/HR

Engr Units Conversion: N/A

Minimum Instr Range: 1

Maximum Instr Range: 1E7

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number Of Sensors: 1

How Processed: N/A

Sensor Locations: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: HI ALM @ 200 R/HR

NI Detector Power Supply Cut-off Power Level: N/A

NI Detector Power Supply Turn-on Power Level: N/A

Instrument Failure Mode: LOW

Temperature Compensation For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: RM-1RM-219B FUNCTIONS AS AN ACCIDENT DETECTOR MEASURING RADIATION LEVELS INSIDE CONTAINMENT. AN ION CHAMBER DETECTOR MONITORS ACCIDENT RADIATION LEVELS INSIDE CONTAINMENT ON THE CRANE WALL ABOVE THE OPERATING FLOOR. OP MANUAL CHAPTER 43

## BEAVER VALLEY POWER STATION ERDS DATA POINT LIBRARY

BV1 ERDS INPUT

Date: 04/08/99

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: COND-AE-RAD1

Point ID: R0029A

Plant Spec Point Desc.: CONDENSER AIR EJECTOR

Generic/Cond Desc.: COND AIR EJECTOR RADIOACTIVITY

Analog/Digital: A

Engr Units/Dig States: CPM

Engr Units Conversion: N/A

Minimum Instr Range: 10

Maximum Instr Range: 1E6

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number Of Sensors: 1

How Processed: N/A

Sensor Locations: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: HI ALM @ 400 CPM/LO ALM @ -100 CPM

NI Detector Power Supply Cut-off Power Level: N/A

NI Detector Power Supply Turn-on Power Level: N/A

Instrument Failure Mode: LOW

Temperature Compensation For DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: RM-1SV-100 CONTINUOUSLY MONITORS THE EFFLUENT FOR GASEOUS ACTIVITY (I-131, XE-133, KR-85) FROM THE CONDENSER AIR EJECTOR VENT. AN ALARM INDICATES A PRIMARY TO SECONDARY LEAK. A HIGH-HIGH RADIOACTIVITY ALARM DIVERTS THE GASEOUS DISCHARGE TO THE CONTAINMENT BUILDING FOR SUBSEQUENT DISCHARGE THROUGH THE ELEVATED RELEASE POINT. A BETA SCINTILLATION DETECTOR CONTINUOUSLY MONITORS THE CONDENSER AIR EJECTOR VENT. OP MANUAL CHAPTER 43, RM-422-1