

Marty L. Richey
Site Vice President724-682-5234
Fax: 724-643-8069June 16, 2017
L-17-198

10 CFR 50, Appendix E, Section VI

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001SUBJECT:
Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
Emergency Response Data System Data Point Library Update

In accordance with reporting requirement 10 CFR 50; Appendix E, Section VI.3.a, updates of the Emergency Response Data System (ERDS) Data Point Library (DPL) for Beaver Valley Power Station, Unit No. 1 (BV1) are provided. The attachment includes the required details of the changes, and the enclosure provides copies of the updated DPL pages.

There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Brian D. Kremer, Manager – Regulatory Compliance, at 724-682-4284.

Sincerely,


Marty L. Richey

Attachment: Summary of Changes to Data Point Library

Enclosure: Beaver Valley Power Station ERDS Data Point Library, Updated Pages

cc: NRC Region I Administrator
NRC Resident Inspector
NRC Project Manager (w/o enclosure)
Director BRP/DEP
Site BRP/DEP RepresentativeADZG
NRK

Attachment
L-17-198

Summary of Changes to Data Point Library
Page 1

Reactor Unit	DPL Point	Description of Change(s)
BV1	R1011A	Create new point named R1011A with same fields as XR013. Date: changed to "5/30/17", Data Feeder: changed to "IPC"
BV1	R1013A	Create new point named R1013A with same fields as XR015. Date: changed to "5/30/17", Data Feeder: changed to "IPC"
BV1	R1021A	Create new point named R1021A with same fields as XR005. Date: changed to "5/30/17", Data Feeder: changed to "IPC"
BV1	R1023A	Create new point named R1023A with same fields as XR007. Date: changed to "5/30/17", Data Feeder: changed to "IPC"
BV1	R1031A	Create new point named R1031A with same fields as XR009. Date: changed to "5/30/17", Data Feeder: changed to "IPC"
BV1	R1033A	Create new point named R1033A with same fields as XR011. Date: changed to "5/30/17", Data Feeder: changed to "IPC"
BV1	XR013	Date: changed to "5/30/17" Unique System Desc.: "Point deleted per ECP-14-0464" Clear all other fields except Date, Reactor Unit, Data Feeder, Point ID.
BV1	XR015	Date: changed to "5/30/17" Unique System Desc.: "Point deleted per ECP-14-0464" Clear all other fields except Date, Reactor Unit, Data Feeder, Point ID.
BV1	XR005	Date: changed to "5/30/17" Unique System Desc.: "Point deleted per ECP-14-0464" Clear all other fields except Date, Reactor Unit, Data Feeder, Point ID.
BV1	XR007	Date: changed to "5/30/17" Unique System Desc.: "Point deleted per ECP-14-0464" Clear all other fields except Date, Reactor Unit, Data Feeder, Point ID.
BV1	XR009	Date: changed to "5/30/17" Unique System Desc.: "Point deleted per ECP-14-0464" Clear all other fields except Date, Reactor Unit, Data Feeder, Point ID.
BV1	XR011	Date: changed to "5/30/17" Unique System Desc.: "Point deleted per ECP-14-0464" Clear all other fields except Date, Reactor Unit, Data Feeder, Point ID.

Enclosure
L-17-198

Beaver Valley Power Station ERDS Data Point Library, Updated Pages
(12 pages follow)

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: ARERAS

NRC ERDS Parameter:

Point ID: XR005

Plant Spec Point Desc.:

Generic/Cond Desc.:

Analog/Digital:

Engr Units/Dig States:

Engr Units Conversion:

Minimum Instr Range:

Maximum Instr Range:

Zero Point Reference:

Reference Point Notes:

PROC or SENS:

Number of Sensors:

How Processed:

Sensor Location:

Alarm/Trip Set Points:

NI Detector Power Supply Cut-Off Power Level:

NI Detector Power Supply Turn-ON Power Level:

Instrument Failure Mode:

Temperature Compensation for DP Transmitters:

Level Reference Leg:

Unique System Desc.: point deleted per ECP 14-0464

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: ARERAS

NRC ERDS Parameter:

Point ID: XR007

Plant Spec Point Desc.:

Generic/Cond Desc.:

Analog/Digital:

Engr Units/Dig States:

Engr Units Conversion:

Minimum Instr Range:

Maximum Instr Range:

Zero Point Reference:

Reference Point Notes:

PROC or SENS:

Number of Sensors:

How Processed:

Sensor Location:

Alarm/Trip Set Points:

NI Detector Power Supply Cut-Off Power Level:

NI Detector Power Supply Turn-ON Power Level:

Instrument Failure Mode:

Temperature Compensation for DP Transmitters:

Level Reference Leg:

Unique System Desc.: point deleted per ECP 14-0464

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: ARERAS

NRC ERDS Parameter:

Point ID: XR009

Plant Spec Point Desc.:

Generic/Cond Desc.:

Analog/Digital:

Engr Units/Dig States:

Engr Units Conversion:

Minimum Instr Range:

Maximum Instr Range:

Zero Point Reference:

Reference Point Notes:

PROC or SENS:

Number of Sensors:

How Processed:

Sensor Location:

Alarm/Trip Set Points:

NI Detector Power Supply Cut-Off Power Level:

NI Detector Power Supply Turn-ON Power Level:

Instrument Failure Mode:

Temperature Compensation for DP Transmitters:

Level Reference Leg:

Unique System Desc.: point deleted per ECP 14-0464

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: ARERAS

NRC ERDS Parameter:

Point ID: XR011

Plant Spec Point Desc.:

Generic/Cond Desc.:

Analog/Digital:

Engr Units/Dig States:

Engr Units Conversion:

Minimum Instr Range:

Maximum Instr Range:

Zero Point Reference:

Reference Point Notes:

PROC or SENS:

Number of Sensors:

How Processed:

Sensor Location:

Alarm/Trip Set Points:

NI Detector Power Supply Cut-Off Power Level:

NI Detector Power Supply Turn-ON Power Level:

Instrument Failure Mode:

Temperature Compensation for DP Transmitters:

Level Reference Leg:

Unique System Desc.: point deleted per ECP 14-0464

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: ARERAS

NRC ERDS Parameter:

Point ID: XR013

Plant Spec Point Desc.:

Generic/Cond Desc.:

Analog/Digital:

Engr Units/Dig States:

Engr Units Conversion:

Minimum Instr Range:

Maximum Instr Range:

Zero Point Reference:

Reference Point Notes:

PROC or SENS:

Number of Sensors:

How Processed:

Sensor Location:

Alarm/Trip Set Points:

NI Detector Power Supply Cut-Off Power Level:

NI Detector Power Supply Turn-ON Power Level:

Instrument Failure Mode:

Temperature Compensation for DP Transmitters:

Level Reference Leg:

Unique System Desc.: point deleted per ECP 14-0464

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: ARERAS

NRC ERDS Parameter:

Point ID: XR015

Plant Spec Point Desc.:

Generic/Cond Desc.:

Analog/Digital:

Engr Units/Dig States:

Engr Units Conversion:

Minimum Instr Range:

Maximum Instr Range:

Zero Point Reference:

Reference Point Notes:

PROC or SENS:

Number of Sensors:

How Processed:

Sensor Location:

Alarm/Trip Set Points:

NI Detector Power Supply Cut-Off Power Level:

NI Detector Power Supply Turn-ON Power Level:

Instrument Failure Mode:

Temperature Compensation for DP Transmitters:

Level Reference Leg:

Unique System Desc.: point deleted per ECP 14-0464

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EFF-GAS-RAD1

Point ID: R1021A

Plant Spec Point Desc.: 1RM-VS-109 LRNGM

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital: A

Engr Units/Dig States: uCi/sec

Engr Units Conversion: Xe133 CF = cps/uCi/cc

Minimum Instr Range: 2.9E+01

Maximum Instr Range: 2.9E+05

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Location: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: Alert=7.92E+2, High=1.584E+3

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

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

Instrument Failure Mode: DEPENDS ON FAILURE MODE

Temperature Compensation for DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: 1 minute average data. System design is such that either the RM-1VS-109 low range or high range noble gas monitor for each pathway will be in service. At a concentration of 1E-2 uCi/cc on the low range monitor, flow will normally swap to the high range monitor. The listed minimum and maximum instrument ranges listed are based on system software parameter limitations and pathway ODCM release flow rate. In addition, the maximum range is based on a release concentration of 1E-2 uCi/cc, limited by the automatic swap to the high range monitor. Note Because actual pathway release flow rate may vary, the "Minimum Instr Range" and "Maximum Instr Range" may not reflect the actual instrument ranges. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. RM-1VS-109 monitors for low range noble gases at the discharge of the Auxiliary Building shielded area exhaust fans and at the discharge of the Containment Refueling Purge and Exhaust fan (during refueling). Provides alarms to warn the operator of abnormal releases and provides input to calculate integrated release data.

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EFF-GAS-RAD3

Point ID: R1023A

Plant Spec Point Desc.: 1RM-VS-109 HRNGM

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital: A

Engr Units/Dig States: uCi/sec

Engr Units Conversion: Xe133 CF = amps/uCi/cc

Minimum Instr Range: 1.8E+03

Maximum Instr Range: 7.9E+12

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Location: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: Alert=5.28E+5, High=1.18E+6

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

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

Instrument Failure Mode: DEPENDS ON FAILURE MODE

Temperature Compensation for DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: 1 minute average data. System design is such that either the RM-1VS-109 low range or high range noble gas monitor for each pathway will be in service. At a concentration of 1E-2 uCi/cc on the low range monitor, flow will normally swap to the high range monitor. Minimum and maximum instrument ranges listed are based on Xe-133 and pathway ODCM release flow rate. Maximum range is based on monitor parameter setting and ODCM release flow rate. Note Because actual pathway release flow rate may vary, the "Minimum Instr Range" and "Maximum Instr Range" may not reflect the actual instrument ranges. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. RM-1VS-109 monitors for high range noble gases at the discharge of the Auxiliary Building shielded area exhaust fans and at the discharge of the Containment Refueling Purge and Exhaust fan (during refueling). Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. Provides alarms to warn the operator of abnormal releases and provides input to calculate integrated release data.

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EFF-GAS-RAD4

Point ID: R1031A

Plant Spec Point Desc.: 1RM-VS-110 LRNGM

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital: A

Engr Units/Dig States: uCi/sec

Engr Units Conversion: Xe133 CF = cps/uCi/cc

Minimum Instr Range: 2.3E+01

Maximum Instr Range: 2.3E+05

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Location: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: Alert=1.137E+3, High=2.274E+3

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

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

Instrument Failure Mode: DEPENDS ON FAILURE MODE

Temperature Compensation for DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: 1 minute average data. System design is such that either the RM-1VS-110 low range or high range noble gas monitor for each pathway will be in service. At a concentration of 1E-2 uCi/cc on the low range monitor, flow will normally swap to the high range monitor. The listed minimum and maximum instrument ranges listed are based on system software parameter limitations and pathway ODCM release flow rate. In addition, the maximum range is based on a release concentration of 1E-2 uCi/cc, limited by the automatic swap to the high range monitor. Note Because actual pathway release flow rate may vary, the "Minimum Instr Range" and "Maximum Instr Range" may not reflect the actual instrument ranges. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. RM-1VS-110 monitors for low range noble gases at the discharge of the Leak Collection Area Exhaust Fans before the Elevated Release Vent. Provides alarms to warn the operator of abnormal releases and provides input to calculate integrated release data.

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EFF-GAS-RAD6

Point ID: R1033A

Plant Spec Point Desc.: 1RM-VS-110 HRNGM

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital: A

Engr Units/Dig States: uCi/sec

Engr Units Conversion: Xe133 CF = amps/uCi/cc

Minimum Instr Range: 1.5E+3

Maximum Instr Range: 6.3E+12

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Location: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: Alert=7.58E+5, High=1.56E+6

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

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

Instrument Failure Mode: DEPENDS ON FAILURE MODE

Temperature Compensation for DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: 1 minute average data. System design is such that either the RM-1VS-110 low range or high range noble gas monitor for each pathway will be in service. At a concentration of 1E-2 uCi/cc on the low range monitor, flow will normally swap to the high range monitor. Minimum and maximum instrument ranges listed are based on Xe-133 and pathway ODCM release flow rate. Maximum range is based on monitor parameter setting and ODCM release flow rate. Note Because actual pathway release flow rate may vary, the "Minimum Instr Range" and "Maximum Instr Range" may not reflect the actual instrument ranges. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. RM-1VS-110 monitors for high range noble gases at the discharge of the Leak Collection Area Exhaust Fans before the Elevated Release Vent. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. Provides alarms to warn the operator of abnormal releases and provides input to calculate integrated release data.

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EXTRA15

Point ID: R1011A

Plant Spec Point Desc.: 1RM-GW-109 LRNGM

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital: A

Engr Units/Dig States: uCi/sec

Engr Units Conversion: Xe133 CF = cps/uCi/cc

Minimum Instr Range: 6.8E-1

Maximum Instr Range: 6.8E+3

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Location: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: Normally 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: DEPENDS ON FAILURE MODE

Temperature Compensation for DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: 1 minute average data. System design is such that either the RM-1GW-109 low range or high range noble gas monitor for each pathway will be in service. At a concentration of 1E-2 uCi/cc on the low range monitor, flow will normally swap to the high range monitor. The listed minimum and maximum instrument ranges listed are based on system software parameter limitations and pathway ODCM release flow rate. In addition, the maximum range is based on a release concentration of 1E-2 uCi/cc, limited by the automatic swap to the high range monitor. Note Because actual pathway release flow rate may vary, the "Minimum Instr Range" and "Maximum Instr Range" may not reflect the actual instrument ranges. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. RM-1GW-109 monitors for low range noble gases at the discharge of the Gaseous Waste Disposal Blowers. Provides alarms to warn the operator of abnormal releases and provides input to calculate integrated release data.

BEAVER VALLEY POWER STATION
ERDS DATA POINT LIBRARY

Date: 5/30/2017

Reactor Unit: BV1

Data Feeder: IPC

NRC ERDS Parameter: EXTRA17

Point ID: R1013A

Plant Spec Point Desc.: 1RM-GW-109 HRNGM

Generic/Cond Desc.: RADIOACTIVITY OF RELEASED GASSES

Analog/Digital: A

Engr Units/Dig States: uCi/sec

Engr Units Conversion: Xe133 CF = amps/uCi/cc

Minimum Instr Range: 4.3E+1

Maximum Instr Range: 1.8E+11

Zero Point Reference: N/A

Reference Point Notes: N/A

PROC or SENS: S

Number of Sensors: 1

How Processed: N/A

Sensor Location: SEE UNIQUE SYSTEM DESCRIPTION FIELD

Alarm/Trip Set Points: Alert=3.27E+5, High=6.55E+5

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

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

Instrument Failure Mode: DEPENDS ON FAILURE MODE

Temperature Compensation for DP Transmitters: N

Level Reference Leg: N/A

Unique System Desc.: 1 minute average data. System design is such that either the RM-1GW-109 low range or high range noble gas monitor for each pathway will be in service. At a concentration of 1E-2 uCi/cc on the low range monitor, flow will normally swap to the high range monitor. Minimum and maximum instrument ranges listed are based on Xe-133 and pathway ODCM release flow rate. Maximum range is based on monitor parameter setting and ODCM release flow rate. Note Because actual pathway release flow rate may vary, the "Minimum Instr Range" and "Maximum Instr Range" may not reflect the actual instrument ranges. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. RM-1GW-109 monitors for high range noble gases at the discharge of the Auxiliary Building shielded area exhaust fans and at the discharge of the Gaseous Waste Disposal Blower. Site dose assessment corrects the uCi/s for source term and flow rate differences depending on selected default source term and decay period. Provides alarms to warn the operator of abnormal releases and provides input to calculate integrated release data.