

RS-06-139

10 CFR Part 50, Appendix E

October 20, 2006

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

Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. 50-456 and 50-457

Byron Station, Units 1 and 2
Facility Operating License Nos. NPF-37 and NPF-66
NRC Docket Nos. 50-454 and 50-455

Subject: Emergency Response Data System – Data Point Library Update

In accordance with 10 CFR Part 50, Appendix E, "Emergency Planning and Preparedness for Production And Utilization Facilities," paragraph VI.3.a, Exelon Generation Company, LLC (EGC) is providing an update to the Braidwood Station and Byron Station Emergency Response Data System (ERDS) data point library.

The following data points are deleted:

Braidwood Station:

- Data point U1040 for Unit 1 and Unit 2
- Data point U1041 for Unit 1 and Unit 2
- Data point U1042 for Unit 1 and Unit 2
- Data point U1043 for Unit 1 and Unit 2

Byron Station:

- Data point U1040 for Unit 1 and Unit 2
- Data point U1041 for Unit 1 and Unit 2
- Data point U1042 for Unit 1 and Unit 2
- Data point U1043 for Unit 1 and Unit 2

The following data points are added:

Braidwood Station:

- Data point U0400 for Unit 1 and Unit 2
- Data point U0420 for Unit 1 and Unit 2
- Data point U0440 for Unit 1 and Unit 2
- Data point U0460 for Unit 1 and Unit 2

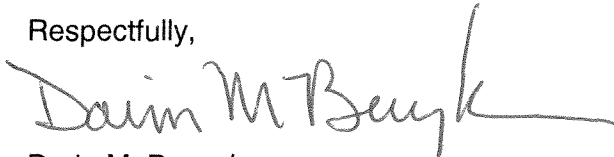
Byron Station:

- Data point U0400 for Unit 1 and Unit 2
- Data point U0420 for Unit 1 and Unit 2
- Data point U0440 for Unit 1 and Unit 2
- Data point U0460 for Unit 1 and Unit 2

The data point reference files are provided in the attachment to this letter.

If you have any questions regarding this letter, please contact David Chrzanowski at (630) 657-2816.

Respectfully,



Darin M. Benyak
Manager – Licensing

Attachment: Braidwood Station and Byron Station ERDS Data Point Library Reference Files

Attachment

Braidwood Station and Byron Station

Data Point Library Reference Files

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0400

Plant Spec Point Desc: Reactor Coolant Loop 1A Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0420

Plant Spec Point Desc: Reactor Coolant Loop 1B Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0440

Plant Spec Point Desc: Reactor Coolant Loop 1C Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital: A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0460

Plant Spec Point Desc: Reactor Coolant Loop 1D Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0400

Plant Spec Point Desc: Reactor Coolant Loop 2A Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0420

Plant Spec Point Desc: Reactor Coolant Loop 2B Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0440

Plant Spec Point Desc: Reactor Coolant Loop 2C Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Braidwood Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0460

Plant Spec Point Desc: Reactor Coolant Loop 2D Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date:	9/28/2006
Reactor Unit:	Byron Unit 1
Data Feeder:	N/A
NRC ERDS Parameter:	Rx COOL FLOW
Point ID:	U0400
Plant Spec Point Desc:	Reactor Coolant Loop 1A Uncorrected Flow
Generic/Cond. Desc:	Reactor Coolant Flow
Analog / Digital	A
Engr Units / Dig States:	PC (Percent)
Engr Units Conversion:	100% flow is a nominal 100,000 gallons per minute per loop
Minimum Instrument Range:	0%
Maximum Instrument Range:	110%
Zero Point Reference:	N/A
Reference Point Notes :	N/A
Proc or Sens:	P
Number of Sensors:	3
How Processed:	Complex Calculation, averaged
Sensor Locations:	Containment Building
Alarm / Trip Set Points:	Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow
Instrument Failure Mode:	Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable
Temperature Compensation For DP Transmitters:	N/A
Level Reference Leg:	N/A
Unique System Desc:	The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0420

Plant Spec Point Desc: Reactor Coolant Loop 1B Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0440

Plant Spec Point Desc: Reactor Coolant Loop 1C Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 1

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0460

Plant Spec Point Desc: Reactor Coolant Loop 1D Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0400

Plant Spec Point Desc: Reactor Coolant Loop 2A Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0420

Plant Spec Point Desc: Reactor Coolant Loop 2B Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0440

Plant Spec Point Desc: Reactor Coolant Loop 2C Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow

ERDS Data Point Library Reference File

Date: 9/28/2006

Reactor Unit: Byron Unit 2

Data Feeder: N/A

NRC ERDS Parameter: Rx COOL FLOW

Point ID: U0460

Plant Spec Point Desc: Reactor Coolant Loop 2D Uncorrected Flow

Generic/Cond. Desc: Reactor Coolant Flow

Analog / Digital A

Engr Units / Dig States: PC (Percent)

Engr Units Conversion: 100% flow is a nominal 100,000 gallons per minute per loop

Minimum Instrument Range: 0%

Maximum Instrument Range: 110%

Zero Point Reference: N/A

Reference Point Notes : N/A

Proc or Sens: P

Number of Sensors: 3

How Processed: Complex Calculation, averaged

Sensor Locations: Containment Building

Alarm / Trip Set Points: Reactor trip if 2 of 3 RCS loop flow channels less than 90% flow

Instrument Failure Mode: Over range high, under range low, 2 of 3 averaged RCS loop flow channels inputs unreliable

Temperature Compensation For DP Transmitters: N/A

Level Reference Leg: N/A

Unique System Desc: The point ID is an average of three RCS loop flow channels. Each RCS loop flow channel input is a 1 minute average of flow