



Exelon Generation

Three Mile Island Unit 1  
Route 441 South, P.O. Box 480  
Middletown, PA 17057  
Telephone 717-948-8000

July 22, 2015  
TMI-15-057

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Three Mile Island Nuclear Station, Unit 1  
Renewed Facility Operating License No. DPR-50  
NRC Docket No. 50-289

Subject: Changes to Emergency Response Data System (ERDS)

In accordance with 10 CFR 50 Appendix E, Section VI.3.a, Exelon Generation Company, LLC (Exelon) at the Three Mile Island Nuclear Station, Unit 1 (TMI) is submitting in the attached enclosure, software changes that affect the transmitted data points identified in the Emergency Response Data System (ERDS) Data Point Library to the NRC. The changes were put into effect on June 23, 2015. The attached satisfies the requirement to provide the changes within 30 days after the changes were completed.

There are no regulatory commitments contained in this request.

Should you have any questions concerning this submittal, please contact Steve Cafrelli at (717) 948-2053.

Respectfully,

Thomas P. Haaf  
Site Vice President (Acting), Three Mile Island Unit 1  
Exelon Generation Co., LLC

Enclosures

cc: USNRC Regional Administrator, Region I  
USNRC Project Manager, TMI-1  
USNRC Senior Resident Inspector, TMI-1  
A. J. Bomboy - Lead Analyst IT  
S. M. Cafrelli - Lead Analyst IT  
M. D. Fitzwater - Senior Regulatory Engineer  
M. McGee Jr. - Project Manager  
B. C. Shumaker - Site EP Manager

A026  
NRR

**ERDS CONFIGURATION FILE CHANGE AUTHORIZATION**

**STATION:** Three Mile Island Applicable Unit(s): 1

Are other Units Affected: ☐ Yes ☒ No Identify: \_\_\_\_\_

**REASON FOR REQUEST:**

Modify EPL File ☐ Add ☐ Delete ☒ Change

**Change Request:**

Station and Unit Configuration: ☒ Yes ☐ No

Change Communication Setup: ☐ Yes ☒ No

List previous values(s): Point ID C4032

List new value(s): New Point ID A0532

**PLANT CONDITIONS:**

Date \_\_\_\_\_ Time: \_\_\_\_\_ Normal: \_\_\_\_\_ Emergency: \_\_\_\_\_

**INITIATED BY:** Steven Cafrelli

Name: Steven Cafrelli Title: Lead Analyst Organization: IT Date: 11/05/2014

**AUTHORIZATION/NOTIFICATION:**

Approval: ☒ Yes ☐ No EP Coordinator/Manager, Termaine Pickett Brad Shumaker Date: 7/15/15  
Print/Sign

**VERIFICATION:**

Changes Completed by: Name: STEVEN CAFRELLI / Steven G. Q. Dept: IT Date: 6/23/15  
Print/Sign  
Change Verified by: Name: JILL FRANK / Jill Frank Dept: I.T. Date: 6/23/15  
Print/Sign

**RESPONSIBLE DEPARTMENT APPROVAL REVIEW:**

Approval: ☒ Yes ☐ No Lissette Villaverde Lissette Villaverde Dept: IT Date: 7/15/15  
Print/Sign

Initiate ATI to track NRC Notification: ☒ Yes or ☐ N/A 1170013-15 Date: 7/17/15

Changes approved by: Termaine Pickett ATI # \_\_\_\_\_ Date: 7/15/15  
EP Coordinator/Manager

**Comments:**

With installation of new Plant Process Computer in June 2015, point C4032 has been replaced by A0532 providing the same information as C4032. C4032 is deleted in the new system due to the calculation only multiplying the value of A0532 by 1.0. Calculation is no longer needed.

**ERDS DATA POINT LIBRARY**

Addition: \_\_\_\_\_ Change: X Deletion: \_\_\_\_\_

Date: 6/23/2015

Reactor Unit: TM1

Data Feeder: N/A

NCR ERDS Parameter: Main SL 1/A

Point Identification: A0532

Plant Spec Point Description: Rad Monitor RM-G26

Generic Cond Description: Steam Generator A Steam Line Rad Level

Analog/Digital: Analog Eng Units / Status: CPM

Eng Units Conversion: Exponential Conversion

Minimum Instrument Range: 10.0

Maximum Instrument Range:  $1.0 \times 10^6$

Zero Point Reference: N/A

Reference Point Notes: N/A

Processed Or Sensor: Sensor

Number Of Sensors: 1

How Processed: N/A

Sensor Locations: On Steam Dump Bypass Line outside Containment

Alarm/Trip Set Points: Hi Alarm at 700.0 CPM; Hi-2 Alarm at 3000.0 CPM

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 Description:

Measures activity in main steam going to the 'A' atmospheric dump relief valve and the 'D', 'E', and 'F' turbine bypass steam dump to main condenser. Sensitivity is 1020 CPM/Ci/cc (considered KR-85).

**ERDS CONFIGURATION FILE CHANGE AUTHORIZATION**

**STATION:** Three Mile Island Applicable Unit(s): 1

Are other Units Affected: ☐ Yes ☒ No Identify: \_\_\_\_\_

**REASON FOR REQUEST:**

Modify EPL File ☐ Add ☐ Delete ☒ Change

**Change Request:**

Station and Unit Configuration: ☒ Yes ☐ No

Change Communication Setup: ☐ Yes ☒ No

List previous values(s): Point ID C4033

List new value(s): New Point ID A0533

**PLANT CONDITIONS:**

Date \_\_\_\_\_ Time: \_\_\_\_\_ Normal: \_\_\_\_\_ Emergency: \_\_\_\_\_

**INITIATED BY:** Steven Cafrelli

Name: Steven Cafrelli Title: Lead Analyst Organization: IT Date: 11/05/2014

**AUTHORIZATION/NOTIFICATION:**

Approval: ☒ Yes ☐ No EP Coordinator/Manager, Jermaine Pickett Date: 7/15/15  
Print/Sign

**VERIFICATION:**

Changes Completed by: Name: STEVEN CAFRELLI Dept: IT Date: 6/23/15  
Print/Sign  
Change Verified by: Name: JILL FRANK Dept: IT Date: 6/23/15  
Print/Sign

**RESPONSIBLE DEPARTMENT APPROVAL REVIEW:**

Approval: ☒ Yes ☐ No Lissette Villarreal Dept: IT Date: 7/15/15  
Print/Sign

Initiate ATI to track NRC Notification: ☒ Yes or ☐ N/A 1170013-15 Date: 07/17/15

Changes approved by: Jermaine Pickett Date: 7/15/15  
EP Coordinator/Manager

ATI #

**Comments:**

With installation of new Plant Process Computer in June 2015, point C4033 has been replaced by A0533 providing the same information as C4033. C4033 is deleted in the new system due to the calculation only multiplying the value of A0533 by 1.0. Calculation is no longer needed.

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**ERDS DATA POINT LIBRARY**

Addition: \_\_\_\_\_ Change:   X   Deletion: \_\_\_\_\_

Date:   6/23/2015  

Reactor Unit:   TM1  

Data Feeder:   N/A  

NCR ERDS Parameter:   Main SL 2/B  

Point Identification:   A0533  

Plant Spec Point Description:   Rad Monitor RM-G27  

Generic Cond Description:   Steam Generator B Steam Line Rad Level  

Analog/Digital:   Analog   Eng Units / Status:   CPM  

Eng Units Conversion:   Exponential Conversion  

Minimum Instrument Range:   10.0  

Maximum Instrument Range:   1.0 x 10<sup>6</sup>  

Zero Point Reference:   N/A  

Reference Point Notes:   N/A  

Processed Or Sensor:   Sensor  

Number Of Sensors:   1  

How Processed:   N/A  

Sensor Locations:   On Steam Dump Bypass Line outside Containment  

Alarm/Trip Set Points:   Hi Alarm at 700.0 CPM; Hi-2 Alarm at 3000.0 CPM  

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 Description:

  Measures activity in main steam going to the 'B' atmospheric dump relief valve and the 'A', 'B', and 'C' turbine bypass steam dump to main condenser. Sensitivity is 1056 CPM/Ci/cc (considered KR-85).