

Part 21 (PAR)

Event # 47693

Rep Org: ROSEMOUNT NUCLEAR	Notification Date / Time: 02/23/2012 11:08 (EST)
Supplier: ROSEMOUNT NUCLEAR	Event Date / Time: 02/16/2012 (CST)
	Last Modification: 03/02/2012
Region: 3	Docket #:
City: CHANHASSEN	Agreement State: Yes
County:	License #:
State: MN	
NRC Notified by: DUYEN PHAM	Notifications: MEL GRAY R1DO
HQ Ops Officer: VINCE KLCO	MIKE ERNSTES R2DO
Emergency Class: NON EMERGENCY	PATTY PELKE R3DO
10 CFR Section:	RICK DEESE R4DO
21.21 UNSPECIFIED PARAGRAPH	PART 21 GRP - EMAIL

PART 21 REPORT - ROSEMOUNT PRESSURE TRANSMITTERS WITH NONZERO BASED CALIBRATIONS

The following information was received by facsimile:

"During the course of qualification testing to replace certain diodes identified for obsolescence, RNII [Rosemount Nuclear Instruments, Inc.] has determined that Model 1154 Series H range code 4-8 pressure transmitters with a significantly elevated or suppressed 4 mA point may not meet the published steam pressure/temperature accuracy specification.

"The out of tolerance condition observed during steam pressure/temperature qualification testing is not related to the replacement diode changes. It is an inherent performance characteristic related to large zero elevation or suppression. The steam pressure/temperature accuracy specification will be revised to account for nonzero based calibrations with a significantly elevated or suppressed 4 mA point.

"This revised specification supersedes the published steam pressure/temperature accuracy specification for all Model 1154 Series H pressure transmitters affected by this notification.

"RNII recommends that users review the application where 1154 Series H range code 4-8 pressure transmitters are used to determine if there are safety considerations related to the revised steam pressure/temperature specification."

Rosemount Nuclear has provided instruments to the following list of domestic U.S. customers: Alabama Power; American Electric Power; Arizona Public Service/Pinnacle West; Bechtel Power; Constellation Energy; Dominion Nuclear Connecticut/Dominion Generation; Duke Energy; ECFS MCS; Edison Material Supply; Electro Mechanics; Entergy; Exelon Generation; Florida Power and Light; FPL Energy; Georgia Power; Northern States Power-

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Minnesota DBA XCEL Energy; Pacific Gas and Electric; Progress Energy Florida; Progress Energy Carolinas; PSEG Nuclear; South Carolina Electric and Gas; Southern California Edison; Southern Nuclear Operating Company; STP Nuclear Operating; Tennessee Valley Authority; TXU/Luminant; Westinghouse Electric.

*** UPDATE FROM DUYN PHAM TO JOHN KNOKE AT 1651 EST ON 03/02/12 ***

"During the course of qualification testing to replace certain diodes identified for obsolescence, an out of tolerance condition during steam pressure/temperature testing was observed on a test pressure transmitter in the qualification program. Through investigation into the out of tolerance condition, it was determined that the condition was not related to the replacement diode, but rather the result of the magnitude of a resistance change made to the transmitter temperature compensation circuitry during a final factory acceptance test. A brief description of the final acceptance test follows.

"During pressure transmitter final processing, a test is conducted on Model 1164 Series H pressure transmitters to assess the effects of ambient temperature changes on the 4mA to 20mA analog output. The temperature test is performed on each transmitter to verify the transmitter accuracy performance over normal operating temperatures from 40 F to 200 F. If the transmitter does not meet the acceptance criteria for the test, changes can be made to the compensating resistor values to optimize performance in the normal operating temperature range. If the resistance adjustment is too large, it has been determined that the accuracy of the pressure transmitter relative to the published steam pressure/temperature profile and accuracy specification may be exceeded during a steam pressure/temperature event.

"The magnitude of output shift during steam pressure/temperature conditions, that is attributable to the resistance changes made in final processing, is predictable based on the specific amount of resistance added or subtracted during the compensation process for each transmitter. Accordingly, RNII [Rosemount Nuclear Instruments, Inc] has reviewed the production records for the potentially affected transmitters and a revised steam pressure/temperature accuracy specification has been established for each shipped pressure transmitter. The revised steam pressure/temperature accuracy specification has been listed by serial number.

"This revised specification supersedes the published steam pressure/temperature accuracy specification for all Model 1154 Series H pressure transmitters affected by this notification. Also note that for certain calibrations with large zero elevation and suppressions as defined in RMII's Part 21 Notification, dated February 23, 2012 (included as Attachment B), an alternate steam pressure/temperature accuracy specification is also provided for pressure transmitters that are affected by both notifications. All other 1154 Series H published specifications remain unchanged.

"On February 23, 2012, it was concluded that a substantial safety hazard may exist. RMII does not have sufficient information to determine the potential safety impact in plant applications. As a result, a notification about the potential substantial safety hazard is being made in accordance with 10 CFR Part 21 to customers who purchased affected 1154 Series H pressure transmitters.

"The manufacturing rework procedure 01153-3000 has been updated to limit the amount of acceptable resistance that may be added or subtracted during final testing. A revised steam pressure/temperature accuracy specification for each pressure transmitter impacted by this notification has been determined.

"RMII recommends that users review the application where 1154 Series H pressure transmitters are used to determine if there are safety considerations related to the revised steam pressure/temperature accuracy specification."

Notified R1DO (Marc Ferdas), R2DO (Mark Franke), R3DO (Ann Marie Stone), R4DO (Ryan Lantz), and the Part 21 Group.



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Nuclear

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Facsimile

No. of Pages: 68
Including cover page

To: NRC Operations Center **Fax Number:** (301) 816-5151

Date: Friday, March 2, 2012

From: Duyen Pham, Quality Manager **Phone:** (952) 949-5363

E-Mail: Duyen.Pham@Emerson.com

Subject: Notification under 10 CFR Part 21 on certain Rosemount Model 1154 Series H Pressure Transmitters

Rosemount Nuclear Instruments, Inc. is submitting the attached notification as required by 10 CFR Part 21. Please contact me if you have any questions.

Sincerely,

Duyen Pham
Quality Manager
Rosemount Nuclear Instruments, Inc.

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02 March 2012

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

**Re: Notification under 10 CFR Part 21 on certain Rosemount Model 1154 Series H
Pressure Transmitters**

Pursuant to 10 CFR Part 21, section 21.21(b), Rosemount Nuclear Instruments, Inc. (RNII) is writing to inform you that certain Model 1154 Series H pressure transmitters may not perform within the published steam pressure/temperature accuracy specification.

Rosemount Nuclear Instruments, Inc. does not have complete information relating to specific plant applications and therefore cannot determine the potential effects of the condition on plant operation.

The potentially affected Model 1154 Series H pressure transmitters were shipped from RNII from March 1994 to February 2012. Model 1154 pressure transmitters (versus Model 1154 Series H) are not affected by this notification.

1.0 Name and address of the individual providing the information:

Mr. Marc D. Bumgarner
Vice President & General Manager
Rosemount Nuclear Instruments, Inc.
8200 Market Boulevard
Chanhassen, MN 55317

2.0 Identification of items supplied:

See the enclosed Attachment A for the list of transmitters shipped by customer and/or plant site.

3.0 Identification of firm supplying the item:

Rosemount Nuclear Instruments, Inc.
8200 Market Boulevard
Chanhassen, MN 55317

4.0 Nature of the failure and potential safety hazard:

During the course of qualification testing to replace certain diodes identified for obsolescence, an out of tolerance condition during steam pressure/temperature testing was observed on a test pressure transmitter in the qualification program. Through investigation into the out of tolerance condition, it was determined that the condition was not related to the replacement diode, but rather the result of the magnitude of a resistance change made to the transmitter temperature compensation circuitry during a final factory acceptance test. A brief description of the final acceptance test follows.

During pressure transmitter final processing, a test is conducted on Model 1154 Series H pressure transmitters to assess the effects of ambient temperature changes on the 4mA to 20mA analog output. The temperature test is performed on each transmitter to verify the transmitter accuracy performance over normal operating temperatures from 40°F to 200°F. If the transmitter does not meet the acceptance criteria for the test, changes can be made to the compensating resistor values to optimize performance in the normal operating temperature range. If the resistance adjustment is too large, it has been determined that the accuracy of the pressure transmitter relative to the published steam pressure/temperature profile and accuracy specification may be exceeded during a steam pressure/temperature event.

The magnitude of output shift during steam pressure/temperature conditions, that is attributable to the resistance changes made in final processing, is predictable based on the specific amount of resistance added or subtracted during the compensation process for each transmitter. Accordingly, RNII has reviewed the production records for the potentially affected transmitters and a revised steam pressure/temperature accuracy specification has been established for each shipped pressure transmitter. The revised steam pressure/temperature accuracy specification is listed in the enclosed attachments by serial number.

This revised specification supersedes the published steam pressure/temperature accuracy specification for all Model 1154 Series H pressure transmitters affected by this notification. Also note that for certain calibrations with large zero elevation and suppressions as defined in Rosemount Nuclear Instruments, Inc.'s Part 21 Notification dated February 23, 2012 (included as Attachment B), an alternate steam pressure/temperature accuracy specification is also provided for pressure transmitters that are affected by both notifications. All other 1154 Series H published specifications remain unchanged.

On February 23, 2012, it was concluded that a substantial safety hazard may exist. Rosemount Nuclear Instruments, Inc. does not have sufficient information to determine the potential safety impact in plant applications. As a result, a notification about the potential substantial safety hazard is being made in accordance with 10 CFR Part 21 to customers who purchased affected 1154 Series H pressure transmitters.

5.0 The corrective action which is taken, the name of the individual or organization responsible for that action, and the length of time taken to complete that action:

- (a) The manufacturing rework procedure 01153-3000 has been updated to limit the amount of acceptable resistance that may be added or subtracted during final testing.
- (b) A revised steam pressure/temperature accuracy specification for each pressure transmitter impacted by this notification has been determined and is provided in the enclosed attachment.

Completion: March 2012

Mr. Marc Bumgarner, VP&GM of Rosemount Nuclear Instruments, Inc. is responsible for any further action related to this issue.

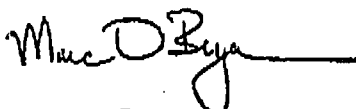
6.0 Any advice related to the potential failure of the item:

RNII recommends that users review the application where 1154 Series H pressure transmitters are used to determine if there are safety considerations related to the revised steam pressure/temperature accuracy specification.

If the interim specification does not meet your application needs, please contact RNII.

Rosemount Nuclear Instruments, Inc. is committed to the nuclear industry and remains dedicated to the supply of high quality products to our customers. If you have any questions, or require additional information related to this issue, please contact: Mike Dougherty (208) 885-1112 or Tracy Kaluzniak (952) 949-7159.

Sincerely,



Marc D. Bumgarner
Vice President & General Manager
Rosemount Nuclear Instruments, Inc.

Enc.: Attachment A: List of Affected Transmitters by Company Name and/or Plant Site
Attachment B: Part 21 Notification dated February 23, 2012

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

ALABAMA POWER CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
QP070495	1154DH5RH	0534652	3-May-07	FARLEY NUCLEAR PLANT	1905858	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
QP070495	1154DH5RH	0534664	4-May-07	FARLEY NUCLEAR PLANT	1905858	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

ALPRET CONTROL SPECIALISTS LTD

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
501177	1154HH5RBN0166	0539862	16-Sep-09	KOEBERG	2396525	±{1%URL+1%span}	±{1%URL+3%span}	±{2%URL+2%span}

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

AMERICAN ELECTRIC POWER CO INC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
01535464	1154SH9RCN0156	0539215	5-Jun-09	DC COOK NUCLEAR PLANT	2347513	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.25\%span)$	N/A
01536923	1154DH5RCN0156	0539873	16-Sep-09	DC COOK NUCLEAR PLANT	2392690	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
01536923	1154DH5RCN0156	0539871	16-Sep-09	DC COOK NUCLEAR PLANT	2392690	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
01536923	1154DH5RCN0156	0539870	16-Sep-09	DC COOK NUCLEAR PLANT	2392690	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
01537316	1154DH4RCN0156	0539932	30-Sep-09	DC COOK NUCLEAR PLANT	2403584	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
01537316	1154DH4RCN0156	0539937	30-Sep-09	DC COOK NUCLEAR PLANT	2403584	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
01541723	1154DH4RCN0156	0541267	5-May-10	DC COOK NUCLEAR PLANT	2512645	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2\%span)$	$\pm(2\%URL+1\%span)$
01541723	1154DH4RCN0156	0541262	5-May-10	DC COOK NUCLEAR PLANT	2512645	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
01541723	1154DH4RCN0156	0541250	5-May-10	DC COOK NUCLEAR PLANT	2512645	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
01541729	1154SH9RCN0156	0541212	27-Apr-10	DC COOK NUCLEAR PLANT	2513136	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1\%span)$	N/A
01541803	1154DH6RCN0156	0541277	7-May-10	DC COOK NUCLEAR PLANT	2513761	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+4.75\%span)$	$\pm(2\%URL+3.75\%span)$
01542901	1154SH9RCN0156	0541418	22-Jun-10	DC COOK NUCLEAR PLANT	2546635	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1\%span)$	N/A
01542912	1154DH5RCN0156	0541478	22-Jun-10	DC COOK NUCLEAR PLANT	2548805	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
01542912	1154DH5RCN0156	0541479	22-Jun-10	DC COOK NUCLEAR PLANT	2548806	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
01547364	1154SH9RCN0156	0544569	27-Aug-11	DC COOK NUCLEAR PLANT	3072523	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+3.75\%span)$	N/A
01547364	1154SH9RCN0156	0544564	31-Aug-11	DC COOK NUCLEAR PLANT	3072523	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+2\%span)$	N/A
01547364	1154SH9RCN0156	0544571	27-Aug-11	DC COOK NUCLEAR PLANT	3072523	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+2\%span)$	N/A
01531736 REV 002	1154DH5RCN0156	0538609	12-Feb-09	DC COOK NUCLEAR PLANT	2260137	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
01539862 REV 001	1154HH5RAN0156	0540447	16-Dec-09	DC COOK NUCLEAR PLANT	2456615	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
01541692 REV 002	1154DH5RCN0156	0541235	21-Apr-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.5\%span)$	$\pm(2\%URL+2.5\%span)$
01541692 REV 002	1154DH5RCN0156	0541273	10-May-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
01541692 REV 002	1154DH5RCN0156	0541232	21-Apr-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
01541692 REV 002	1154DH5RCN0156	0541275	10-May-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
01541692 REV 002	1154DH5RCN0156	0541274	10-May-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
01541692 REV 002	1154DH5RCN0156	0541234	21-Apr-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
01541692 REV 002	1154DH5RCN0156	0541236	21-Apr-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
01541692 REV 002	1154DH5RCN0156	0541272	10-May-10	DC COOK NUCLEAR PLANT	2512693	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012
ARIZONA PUBLIC SERVICE CO/PINNACLE WEST CAPITAL

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
500228062	1154SH9RA	0519798	4-Aug-00	PALO VERDE WHSE	617500	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
500228062	1154SH9RA	0519799	4-Aug-00	PALO VERDE WHSE	617500	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
500528113	1154SH9RA	0538867	26-Mar-09	PALO VERDE WHSE	2267348	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
500528113	1154SH9RA	0538866	26-Mar-09	PALO VERDE WHSE	2267348	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
500545364	1154SH9RA	0541426	22-Jun-10	PALO VERDE WHSE	2551739	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

ARKANSAS POWER

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RMI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
	1154SH9RB	0508189	1994	ANO 1	B600329	±(2%URL+0.5%span)	±(2%URL+2%span)	N/A
	1154SH9RB	0508250	1994	ANO 1	B600329	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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BALTIMORE GAS & ELECTRIC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
14458GX	1154SH9RC	0511104	26-Sep-96	CALVERT CLIFFS NPP	CC98013	±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
14458GX	1154SH9RC	0511103	26-Sep-96	CALVERT CLIFFS NPP	CC98013	±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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BECHTEL POWER CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
25494-824-FPA-JP02-00001 REV 0	1154DH6RC	0543853	17-Jun-11	POINT BEACH NUCLEAR PLANT	3072024	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.5\%span)$	$\pm(2\%URL+2.5\%span)$
25494-824-FPA-JP02-00001 REV 0	1154DH6RC	0543854	17-Jun-11	POINT BEACH NUCLEAR PLANT	3072024	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
25494-824-FPA-JP02-00001 REV 0	1154DH6RC	0543974	25-May-11	POINT BEACH NUCLEAR PLANT	3064364	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
25494-824-FPA-JP02-00001 REV 0	1154DH6RC	0543854	17-Jun-11	POINT BEACH NUCLEAR PLANT	3072024	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2\%span)$	$\pm(2\%URL+1\%span)$
25494-824-FPA-JP02-00001 REV 0	1154DH6RC	0543855	17-Jun-11	POINT BEACH NUCLEAR PLANT	3072024	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
25494-824-FPA-JP02-00001 REV 0	1154DH6RC	0543853	17-Jun-11	POINT BEACH NUCLEAR PLANT	3072024	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
25494-824-FPA-JP02-00002 REV 0	1154DH6RC	0543855	17-Jun-11	POINT BEACH NUCLEAR PLANT	3064364	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
25494-924-FPA-JP02-00001 REV. 0	1154DH6RC	0542705	4-Feb-11	POINT BEACH NUCLEAR PLANT	2678431	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
25494-924-FPA-JP02-00001 REV. 0	1154DH6RC	0542708	4-Feb-11	POINT BEACH NUCLEAR PLANT	2678431	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
25494-924-FPA-JP02-00001 REV. 0	1154DH6RC	0542707	21-Feb-11	POINT BEACH NUCLEAR PLANT	2678431	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
25494-924-FPA-JP02-00001 REV. 0	1154DH6RC	0542704	10-Feb-11	POINT BEACH NUCLEAR PLANT	2678431	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
25494-924-FPA-JP02-00002 REV 0	1154DH6RC	0542896	10-Feb-11	POINT BEACH NUCLEAR PLANT	2678974	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
25494-924-FPA-JP02-00002 REV 0	1154DH6RC	0542870	21-Feb-11	POINT BEACH NUCLEAR PLANT	2678974	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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BRUCE POWER LP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00088847	1154DH7RCN0120	0522841	23-Jan-02	BRUCE STORES	968604	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
P.O. 00092464	1154SH9RCN0120	0523868	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+2.5%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523866	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523948	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523865	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523890	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523947	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523864	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523867	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523950	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523949	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523952	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523863	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
P.O. 00092464	1154SH9RCN0120	0523889	25-Sep-02	BRUCE STORES	1044852	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
PO 00092466	1154DH5RCN0120	0523873	27-Jun-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+4.25%span)	±(2%URL+3.25%span)
PO 00092466	1154DH5RCN0120	0523937	25-Sep-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
PO 00092466	1154DH5RCN0120	0523936	25-Sep-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
PO 00092466	1154DH5RCN0120	0523870	27-Jun-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
PO 00092466	1154DH5RCN0120	0523874	27-Jun-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
PO 00092466	1154DH5RCN0120	0523932	25-Sep-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
PO 00092466	1154DH5RCN0120	0523872	27-Jun-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
PO 00092466	1154DH5RCN0120	0523933	25-Sep-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
PO 00092466	1154DH5RCN0120	0523935	25-Sep-02	BRUCE STORES	1037558	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012
CONSTELLATION ENERGY GROUP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
421866	1154SH9RBN0034	0536224	4-Feb-08	UNSPECIFIED	2060266	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
421866	1154SH9RBN0034	0536223	6-Feb-08	UNSPECIFIED	2060266	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
424595	1154HH5RCN0148	0538435	22-Jan-09	CALVERT CLIFFS NPP	2228993	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
424595	1154HH5RCN0088	0538408	22-Jan-09	CALVERT CLIFFS NPP	2228993	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
424595	1154HH5RCN0148	0538433	22-Jan-09	CALVERT CLIFFS NPP	2228993	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
427145	1154HH5RCN0148	0540233	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
427145	1154HH5RCN0148	0540231	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
427145	1154HH5RCN0148	0540228	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
427145	1154SH9RCN0132	0540206	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
427145	1154HH5RCN0148	0540229	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
427145	1154HH5RCN0148	0540232	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
427145	1154SH9RCN0132	0540200	8-Dec-09	CALVERT CLIFFS NPP	2437563	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
429122	1154HH5RCN0148	0541579	16-Jul-10	CALVERT CLIFFS NPP	2546395	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
429122	1154HH5RCN0148	0541580	16-Jul-10	CALVERT CLIFFS NPP	2546395	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
429122	1154HH5RCN0148	0541581	16-Jul-10	CALVERT CLIFFS NPP	2546395	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

DOMINION ENERGY

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
45590738	1154SH9RCN0034	0537250	4-Aug-08	UNSPECIFIED	2113239	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

DUKE ENERGY CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00080497	1154SH9RB	0534225	27-Feb-07	OCONEE SITE	1799802	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.25\%span)$	N/A
00080497	1154SH9RB	0534226	27-Feb-07	OCONEE SITE	1799802	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
00081158	1154SH9RB	0534228	27-Mar-07	OCONEE SITE	1806682	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1\%span)$	N/A
00100642	1154SH9RB	0536303	29-Feb-08	CATAWBA NUCLEAR STA	2071534	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1\%span)$	N/A
00100987 REV Q01	1154SH9RB	0536437	18-Mar-08	OCONEE SITE	2081256	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.25\%span)$	N/A
00100987 REV Q01	1154SH9RB	0536433	18-Mar-08	OCONEE SITE	2081256	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
00120544 REV Q02	1154HH5RB	0539907	9-Oct-09	OCONEE SITE	2382468	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00120544 REV Q02	1154HH5RB	0539904	9-Oct-09	OCONEE SITE	2382468	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00120544 REV Q02	1154HH5RB	0539905	9-Oct-09	OCONEE SITE	2382468	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00120544 REV Q02	1154HH5RB	0539906	9-Oct-09	OCONEE SITE	2382468	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00120544 REV Q02	1154HH5RB	0539884	14-Sep-09	OCONEE SITE	2382468	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
00120544 REV Q02	1154HH5RB	0539883	14-Sep-09	OCONEE SITE	2382468	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
NE23301	1154SH9RB	0532613	17-Jul-06	OCONEE SITE	1726450	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
NE23301	1154SH9RB	0532614	17-Jul-06	OCONEE SITE	1726450	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON JAPAN LTD

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
EPNJS/36RC20007P	1154DH4RC	0533943	15-Feb-07	mitsubishi heavy industries	1829988	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON PROCESS MANAGEMENT AG

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
41634362	1154SH9RA	0541178	16-Apr-10	NEK POWER PLANT KRSKO	2506770	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON PROCESS MANAGEMENT ASIA PACIFIC PTE LTD

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
80805199-1	1154DH5RAN0167	0545190	13-Dec-11	FUJIAN FUQING NUCLEAR POWER CO LTD	3177991	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
80805206-1	1154DH5RAN0167	0545191	13-Dec-11	FANGJIASHAN NUCLEAR POWER PLANT	3177430	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
80805206-1	1154DH5RAN0167	0545192	13-Dec-11	FANGJIASHAN NUCLEAR POWER PLANT	3177430	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800662/CPB	1154SH9RAN0170	0542680	8-Feb-11	HONGYANHE NUCLEAR POWER STATION	2316473	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
HP 80800662/CPB	1154SH9RAN0170	0542679	8-Feb-11	HONGYANHE NUCLEAR POWER STATION	2316473	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
HP 80800662/CPB	1154SH9RAN0170	0542681	8-Feb-11	HONGYANHE NUCLEAR POWER STATION	2316473	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
HP 80800664/CPB	1154DH5RAN0152	0544752	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
HP 80800664/CPB	1154DH5RAN0152	0544757	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800664/CPB	1154DH6RAN0152	0544734	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800664/CPB	1154DH5RAN0152	0544754	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800664/CPB	1154DH5RAN0152	0544659	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800664/CPB	1154DH5RAN0152	0544753	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800664/CPB	1154SH9RAN0170	0544621	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
HP 80800664/CPB	1154DH5RAN0152	0544657	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316475	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800666/CPB	1154DH4RAN0152	0544652	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316478	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800666/CPB	1154DH5RAN0152	0544653	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316478	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800666/CPB	1154DH6RAN0152	0544619	3-Nov-11	HONGYANHE NUCLEAR POWER STATION	2316478	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800669/CPB	1154DH5RAN0152	0542738	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
HP 80800669/CPB	1154DH5RAN0152	0542856	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800669/CPB	1154DH6RAN0152	0542735	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
HP 80800669/CPB	1154DH6RAN0152	0542734	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80800669/CPB	1154DH4RAN0152	0543595	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800669/CPB	1154DH5RAN0152	0542736	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+4.5%span)	±(2%URL+3.5%span)
HP 80800669/CPB	1154SH9RAN0170	0542880	30-Mar-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(2%URL+0.5%span)	±(2%URL+2.75%span)	N/A
HP 80800669/CPB	1154DH4RAN0152	0543595	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
HP 80800669/CPB	1154DH5RAN0152	0542739	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
HP 80800669/CPB	1154DH5RAN0152	0542854	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
HP 80800669/CPB	1154DH6RAN0152	0542734	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800669/CPB	1154DH6RAN0152	0542735	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
HP 80800669/CPB	1154DH5RAN0152	0542740	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800669/CPB	1154DH5RAN0152	0542856	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800669/CPB	1154DH5RAN0152	0542738	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800669/CPB	1154DH5RAN0152	0542855	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80800669/CPB	1154DH5RAN0152	0542737	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800669/CPB	1154DH5RAN0152	0542741	13-May-11	FUJIAN NINGDE NUCLEAR POWER STATION	2316461	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80805197/CP1	1154DH5RAN0167	0543103	20-Apr-11	FUJIAN FUQING NUCLEAR POWER CO LTD	2597429	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
HP 80805197/CP1	1154DH5RAN0167	0543065	20-Apr-11	FUJIAN FUQING NUCLEAR POWER CO LTD	2597429	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
HP 80805197/CP1	1154DH5RAN0167	0543101	20-Apr-11	FUJIAN FUQING NUCLEAR POWER CO LTD	2597429	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)

HP 80805674/CPB	1154DH5RAN0152	0545404	5-Jan-12	YANGJIANG NUCLEAR POWER CO LTD	2626827	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80805674/CPB	1154DH5RAN0152	0545400	5-Jan-12	YANGJIANG NUCLEAR POWER CO LTD	2626827	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80805674/CPB	1154SH9RAN0170	0545077	2-Dec-11	YANGJIANG NUCLEAR POWER CO LTD	2626827	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
HP 80805674/CPB	1154DH5RAN0152	0545147	5-Jan-12	YANGJIANG NUCLEAR POWER CO LTD	2626827	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80805675/CPB	1154DH6RAN0152	0543377	6-May-11	YANGJIANG NUCLEAR POWER CO LTD	2627660	±(1%URL+1%span)	±(1%URL+5%span)	±(2%URL+4%span)
HP 80805675/CPB	1154DH5RAN0152	0543376	6-May-11	YANGJIANG NUCLEAR POWER CO LTD	2627660	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80805675/CPB	1154DH5RAN0152	0543378	6-May-11	YANGJIANG NUCLEAR POWER CO LTD	2627660	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80805675/CPB	1154DH6RAN0152	0543377	6-May-11	YANGJIANG NUCLEAR POWER CO LTD	2627660	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80806213/CPB	1154DH4RAN0141	0542966	25-Mar-11	LING AO NUCLEAR PLANT	2673688	±(1%URL+1%span)	±(1%URL+4.5%span)	±(2%URL+3.5%span)
HP 80806213/CPB	1154DH6RAN0141	0542971	25-Mar-11	LING AO NUCLEAR PLANT	2673688	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
HP 80806213/CPB	1154DH4RAN0141	0542968	25-Mar-11	LING AO NUCLEAR PLANT	2673688	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
HP 80806213/CPB	1154DH5RAN0141	0542999	25-Mar-11	LING AO NUCLEAR PLANT	2673688	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80806389/CPB	1154DH4RAN0149	0544033	14-Oct-11	QINSHAN II NUCLEAR PLANT	2685254	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80806389/CPB	1154DH5RAN0150	0544031	14-Oct-11	QINSHAN II NUCLEAR PLANT	2685254	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80806389/CPB	1154DH5RAN0150	0544030	14-Oct-11	QINSHAN II NUCLEAR PLANT	2685254	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON PROCESS MANAGEMENT CHINA LTD

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
HP 80800661/CPB	1154DHSRAN0152	0540578	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+4.25%span)	±(2%URL+3.25%span)
HP 80800661/CPB	1154DHSRAN0152	0540930	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
HP 80800661/CPB	1154DHSRAN0152	0540577	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
HP 80800661/CPB	1154DHSRAN0152	0540929	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
HP 80800661/CPB	1154DHSRAN0152	0540574	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800661/CPB	1154DHGRAN0152	0540906	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800661/CPB	1154DHGRAN0152	0541079	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800661/CPB	1154DHGRAN0152	0541076	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800661/CPB	1154DHSRAN0152	0540579	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800661/CPB	1154DHGRAN0152	0540833	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800661/CPB	1154DHGRAN0152	0540834	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800661/CPB	1154DHGRAN0152	0540835	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800661/CPB	1154DHGRAN0152	0541078	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800661/CPB	1154DHSRAN0152	0540576	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800661/CPB	1154DHSRAN0152	0540928	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800661/CPB	1154DHGRAN0152	0540907	8-Apr-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800661/CPB	1154SHRAN0170	0542159	2-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316472	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
HP 80800662/CPB	1154DH5RAN0152	0542446	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+4.5%span)	±(2%URL+3.5%span)
HP 80800662/CPB	1154DHSRAN0152	0542447	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
HP 80800662/CPB	1154DHGRAN0152	0542395	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
HP 80800662/CPB	1154DHSRAN0152	0542393	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
HP 80800662/CPB	1154DHSRAN0152	0542443	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
HP 80800662/CPB	1154DHGRAN0152	0542551	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800662/CPB	1154DHSRAN0152	0542444	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
HP 80800662/CPB	1154DHGRAN0152	0542553	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
HP 80800662/CPB	1154DHSRAN0152	0542394	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800662/CPB	1154DHSRAN0152	0542392	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800662/CPB	1154DHSRAN0152	0542445	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
HP 80800662/CPB	1154DHGRAN0152	0542549	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800662/CPB	1154DHGRAN0152	0542554	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80800662/CPB	1154DHSRAN0152	0542442	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
HP 80800662/CPB	1154DHGRAN0152	0542396	29-Dec-10	HONGYANHE NUCLEAR POWER STATION	2316473	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
HP 80800667/CPB	1154DHSRAN0152	0541476	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+4.5%span)	±(2%URL+3.5%span)
HP 80800667/CPB	1154DHSRAN0152	0541477	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+4.25%span)	±(2%URL+3.25%span)
HP 80800667/CPB	1154DHSRAN0152	0541475	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
HP 80800667/CPB	1154DHSRAN0152	0541367	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
HP 80800667/CPB	1154DHGRAN0152	0541311	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800667/CPB	1154DHGRAN0152	0541517	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)

HP 80800667/CPB	1154SH9RAN0170	0542387	28-Dec-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
HP 80800667/CPB	1154DH5RAN0152	0541369	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
HP 80800667/CPB	1154DH5RAN0152	0541366	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
HP 80800667/CPB	1154DH4RAN0152	0541519	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80800667/CPB	1154DH4RAN0152	0541494	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800667/CPB	1154DH4RAN0152	0541520	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800667/CPB	1154DH5RAN0152	0541368	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800667/CPB	1154DH5RAN0152	0541370	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
HP 80800667/CPB	1154DH4RAN0152	0541496	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800667/CPB	1154DH4RAN0152	0541521	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800667/CPB	1154DH4RAN0152	0541495	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800667/CPB	1154DH4RAN0152	0541522	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316374	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
HP 80800670/CPB	1154DH5RAN0152	0541461	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316470	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
HP 80800670/CPB	1154DH6RAN0152	0541463	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316470	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
HP 80800670/CPB	1154SH9RAN0170	0542042	28-Dec-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316470	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
HP 80800670/CPB	1154DH6RAN0152	0541462	15-Jul-10	FUJIAN NINGDE NUCLEAR POWER STATION	2316470	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
OP 50021648/CNE	1154DH5RAN0141	0536354	27-Jun-08	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
OP 50021648/CNE	1154DH5RAN0141	0537413	16-Jan-09	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
OP 50021648/CNE	1154SH9RAN0143	0536313	27-Jun-08	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
OP 50021648/CNE	1154DH5RAN0141	0538354	16-Jan-09	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
OP 50021648/CNE	1154DH5RAN0141	0538355	16-Jan-09	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
OP 50021648/CNE	1154DH5RAN0141	0538358	16-Jan-09	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
OP 50021648/CNE	1154DH5RAN0141	0538359	16-Jan-09	DAYA BAY NUCLEAR POWER COMPLEX	2041726	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
OP 82010800/CPB	1154DH5RAN0150	0538971	21-Aug-09	QINSHAN II NUCLEAR PLANT	2263492	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
OP 82010800/CPB	1154DH5RAN0150	0538969	21-Aug-09	QINSHAN II NUCLEAR PLANT	2263492	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
OP 82010800/CPB	1154DH4RAN0149	0538976	21-Aug-09	QINSHAN II NUCLEAR PLANT	2263492	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
OP 82010801/CPB	1154DH5RAN0150	0540140	28-May-10	QINSHAN II NUCLEAR PLANT	2264295	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
OP 82010801/CPB	1154DH5RAN0150	0540139	28-May-10	QINSHAN II NUCLEAR PLANT	2264295	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
OP 82010801/CPB	1154DH5RAN0150	0540141	28-May-10	QINSHAN II NUCLEAR PLANT	2264295	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
OP 82010801/CPB	1154DH5RAN0150	0540138	28-May-10	QINSHAN II NUCLEAR PLANT	2264295	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON PROCESS MANAGEMENT LTDA

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
66452/DA	1154HH5RBN0155	538310	2-Jan-09	ANGRA 1 SGR PROJECT	2234654	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
66452/DA	1154HH5RBN0155	0538321	2-Jan-09	ANGRA 1 SGR PROJECT	2234654	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON PROCESS MANAGEMENT SERVICIOS SL

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RMI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
34992357	1154SH9RA	0526794	22-Dec-03	C.N. VANDELLOS II	1263769	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EMERSON PROCESS MANAGEMENT SL

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
34998023	1154SH9RB	0531668	16-Mar-06	C.N. ALMARAZ	1597947	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
35002753	1154HH5RA	0534889	14-Jun-07	C.N. NUCLEAR ASCO	1868149	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
35002753	1154HH5RA	0534887	14-Jun-07	C.N. NUCLEAR ASCO	1868149	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
35009158	1154DH4RBN0026	0538885	23-Mar-09	ASCO VANDELLOS	2250235	±5.50 inH2O	±(5.50 inH2O+0.25%span)	N/A
35009158	1154DH4RBN0026	0538882	23-Mar-09	ASCO VANDELLOS	2250235	±5.50 inH2O	±(5.50 inH2O+0.25%span)	N/A
35009461	1154HH5RB	0539118	22-May-09	C.N. NUCLEAR ASCO	2265654	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
35009524	1154DH5RA	0538716	26-Feb-09	VANDELLOS II	2265652	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
35010360	1154SH9RB	0539544	24-Jul-09	C.N. NUCLEAR ASCO	2316084	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
35012289	1154SH9RB	0540848	18-Feb-10	C.N. ALMARAZ	2443627	±(2%URL+0.5%span)	±(2%URL+2%span)	N/A
35014500	1154SH9RA	0543246	25-Mar-11	ASCO VANDELLOS	2587905	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
35014500	1154SH9RA	0542730	9-Feb-11	ASCO VANDELLOS	2587905	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
35014500	1154SH9RA	0542724	3-Feb-11	ASCO VANDELLOS	2587905	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
35014500	1154SH9RA	0542726	3-Feb-11	ASCO VANDELLOS	2587905	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
35014500	1154SH9RA	0542727	3-Feb-11	ASCO VANDELLOS	2587905	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
35014500	1154SH9RA	0542728	3-Feb-11	ASCO VANDELLOS	2587905	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
35014658	1154SH9RAN0060	0543795	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+6.5%span)	N/A
35014658	1154SH9RBN0060	0541936	12-Nov-10	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+6.5%span)	N/A
35014658	1154SH9RAN0060	0543797	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+5.75%span)	N/A
35014658	1154SH9RAN0060	0543796	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+5.75%span)	N/A
35014658	1154SH9RBN0060	0541938	12-Nov-10	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+4.5%span)	N/A
35014658	1154SH9RAN0060	0543799	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+4.5%span)	N/A
35014658	1154SH9RBN0060	0541937	12-Nov-10	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+3.75%span)	N/A
35014658	1154SH9RAN0060	0543798	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+2.75%span)	N/A
35014658	1154HH5RB	0541940	12-Nov-10	ASCO VANDELLOS II	2595531	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
35014658	1154HH5RB	0541939	12-Nov-10	ASCO VANDELLOS II	2595531	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
35014658	1154SH9RAN0060	0543798	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+2.25%span)	N/A
35014658	1154SH9RAN0060	0543799	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+1.5%span)	N/A
35014658	1154SH9RAN0060	0543796	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+1.25%span)	N/A
35014658	1154SH9RAN0060	0543797	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+1.25%span)	N/A
35014658	1154SH9RAN0060	0543795	14-Jun-11	ASCO VANDELLOS II	2595531	±(3%URL+1%span)	±(3%URL+1.25%span)	N/A
35015273	1154DH4RBN0026	0542693	16-Feb-11	C.N. ALMARAZ	2639947	±5.50 inH2O	±(5.50 inH2O+2%span)	N/A
35015273	1154DH4RBN0026	0542685	16-Feb-11	C.N. ALMARAZ	2639947	±5.50 inH2O	±(5.50 inH2O+1.75%span)	N/A

35015273	1154DH4RBN0026	0542688	16-Feb-11	C.N. ALMARAZ	2639947	±5.50 inH2O	±(5.50 inH2O+1.75%span)	N/A
35015497	1154DH4RBN0026	0543049	21-Mar-11	C.N. NUCLEAR ASCO	2655972	±5.50 inH2O	±(5.50 inH2O+1.25%span)	N/A
35017804	1154DH4RBN0026	0545060	28-Oct-11	C.N. ALMARAZ	3132994	±5.50 inH2O	±(5.50 inH2O+0.25%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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ENTERGY CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI# SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
10128836	1154SH9RCN0012	0533025	23-Aug-06	WATERFORD 3 NUCLEAR	1739327	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
10128836	1154SH9RCN0012	0533020	23-Aug-06	WATERFORD 3 NUCLEAR	1739327	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
10166776	1154SH9RCN0012	0535675	18-Dec-07	WATERFORD 3 NUCLEAR	1982772	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.75\%span)$	N/A
10166776	1154SH9RCN0012	0535671	18-Dec-07	WATERFORD 3 NUCLEAR	1982772	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.25\%span)$	N/A
10166776	1154SH9RCN0012	0535674	18-Dec-07	WATERFORD 3 NUCLEAR	1982772	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.25\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

EXELON GENERATION CO LLC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00076959 RELO0161 REV001	1154SH9RA	0536113	9-Jan-08	BRAIDWOOD WAREHOUSE	2003982	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+2\%span)$	N/A
00076959 REV 001 REL 00136	1154DH4RB	0535039	17-Jul-07	LASALLE WAREHOUSE	1911938	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
00076959 REV 002 REL 00249	1154HH5RB	0539134	20-May-09	BRAIDWOOD WAREHOUSE	2336680	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00076959 REV 002 REL 00249	1154HH5RB	0539135	20-May-09	BRAIDWOOD WAREHOUSE	2336680	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
00423255 REV 003	1154SH9RA	0535258	13-Aug-07	BRAIDWOOD WAREHOUSE	1931470	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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FIRST ENERGY CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
45168981	1154SH9RBN0037	0531685	8-Mar-06	DAVIS BESSE PLANT	1596217	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
45168981	1154SH9RBN0037	0531686	6-Mar-06	DAVIS BESSE PLANT	1596217	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
45168981	1154SH9RBN0037	0531683	6-Mar-06	DAVIS BESSE PLANT	1596217	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
45168981	1154SH9RBN0037	0531684	6-Mar-06	DAVIS BESSE PLANT	1596217	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
45341123	1154SH9RBN0037	0541531	21-Jun-10	DAVIS BESSE PLANT	2568616	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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FISHER ROSEMOUNT KOREA LTD

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
R200101710	1154SH9RBN0105	0520377	17-Jan-01	UNSPECIFIED	783157	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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FISHER ROSEMOUNT SA

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
38777	1154DH4RBN0026	0511448	6-May-96	UNSPECIFIED		±5.50 inH2O	±(5.50 inH2O+2%span)	N/A
38777	1154DH4RBN0026	0511447	6-May-96	UNSPECIFIED		±5.50 inH2O	±(5.50 inH2O+2%span)	N/A
38777	1154DH4RBN0026	0511446	6-May-96	UNSPECIFIED		±5.50 inH2O	±(5.50 inH2O+1.25%span)	N/A
40855	1154DH5RB	0513081	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
40855	1154DH5RB	0513080	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
40855	1154DH5RB	0513077	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
40855	1154DH5RB	0513070	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
40855	1154DH5RB	0513071	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
40855	1154DH5RB	0513072	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
40855	1154DH5RB	0513074	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
40855	1154DH5RB	0513076	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
40855	1154DH5RB	0513078	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
40855	1154DH5RB	0513069	28-Feb-97	UNSPECIFIED	108687	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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FLORIDA POWER AND LIGHT CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00061111	1154SH9RA	0524644	18-Dec-02	ST LUCIE STORES	1103051	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+3\%span)$	N/A
00061111	1154SH9RA	0524641	18-Dec-02	ST LUCIE STORES	1103051	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1\%span)$	N/A
00061111	1154SH9RA	0524640	18-Dec-02	ST LUCIE STORES	1103051	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
00061111	1154SH9RA	0524642	18-Dec-02	ST LUCIE STORES	1103051	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
00063186	1154HH6RA	0525149	4-Mar-03	ST LUCIE STORES	1140143	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
00063186	1154HH6RA	0525148	4-Mar-03	ST LUCIE STORES	1140143	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00063186	1154HH6RA	0525153	4-Mar-03	ST LUCIE STORES	1140143	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00063186	1154HH6RA	0525152	4-Mar-03	ST LUCIE STORES	1140143	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
00090532 REV 002	1154SH9RA	0532047	20-Apr-06	ST LUCIE STORES	1646676	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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FLORIDA POWER CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00062611	1154HH6RA	0523480	7-Jun-02	CRYSTAL RIVER UNIT 3	1010811	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
F340342D	1154DH6RAN0037	0513495	5-May-97	CRYSTAL RIVER UNIT 3	149618	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
F340342D	1154DH6RAN0037	0513496	5-May-97	CRYSTAL RIVER UNIT 3	149618	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
F741538D	1154HH5RAN0018	0512912	11-Dec-96	UNSPECIFIED		±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
F741538D	1154HH5RAN0018	0512907	11-Dec-96	UNSPECIFIED		±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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GEORGIA POWER CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
7045892	1154DH5RH	0519803	8-Aug-00	VOGTLE ELECTRIC GENERATING PLANT	726160	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7070664	1154DH5RH	0532193	11-May-06	VOGTLE ELECTRIC GENERATING PLANT	1671752	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
7070664	1154DH5RH	0532192	11-May-06	VOGTLE ELECTRIC GENERATING PLANT	1671752	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7071636	1154DH5RH	0532626	6-Jul-06	VOGTLE ELECTRIC GENERATING PLANT	1703718	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7071636	1154DH5RH	0532628	6-Jul-06	VOGTLE ELECTRIC GENERATING PLANT	1703718	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7071636	1154DH5RH	0532627	6-Jul-06	VOGTLE ELECTRIC GENERATING PLANT	1703718	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
7071835	1154HH5RH	0532630	9-Jul-06	VOGTLE ELECTRIC GENERATING PLANT	1710522	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7075037	1154SH9RH	0534414	12-Apr-07	VOGTLE ELECTRIC GENERATING PLANT	1821700	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
7075037	1154SH9RH	0534578	24-Apr-07	VOGTLE ELECTRIC GENERATING PLANT	1821700	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
7077388	1154DH5RH	0534935	11-Jun-07	VOGTLE ELECTRIC GENERATING PLANT	1901678	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7077388	1154DH5RH	0534933	11-Jun-07	VOGTLE ELECTRIC GENERATING PLANT	1901678	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7077388	1154DH5RH	0534934	11-Jun-07	VOGTLE ELECTRIC GENERATING PLANT	1901678	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7079738	1154DH5RH	0536006	3-Dec-07	VOGTLE ELECTRIC GENERATING PLANT	1998930	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7079738	1154DH5RH	0536005	3-Dec-07	VOGTLE ELECTRIC GENERATING PLANT	1998930	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7081445	1154DH5RH	0536414	14-Mar-08	VOGTLE ELECTRIC GENERATING PLANT	2072553	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7082019	1154DH6RH	0536532	7-Apr-08	VOGTLE ELECTRIC GENERATING PLANT	2093541	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7082294	1154HH4RH	0536844	3-Jun-08	VOGTLE ELECTRIC GENERATING PLANT	2100638	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
7088427	1154DH5RH	0539770	26-Aug-09	VOGTLE ELECTRIC GENERATING PLANT	2373688	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
7088427	1154DH5RH	0539775	26-Aug-09	VOGTLE ELECTRIC GENERATING PLANT	2373688	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
7088427	1154DH5RH	0539768	26-Aug-09	VOGTLE ELECTRIC GENERATING PLANT	2373688	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
7088427	1154DH5RH	0539776	26-Aug-09	VOGTLE ELECTRIC GENERATING PLANT	2373688	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
7088427	1154DH5RH	0539774	26-Aug-09	VOGTLE ELECTRIC GENERATING PLANT	2373688	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7093513	1154DH6RH	0541719	4-Oct-10	VOGTLE ELECTRIC GENERATING PLANT	2586524	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
70305480000	1154DH5RH	0513857	5-Sep-97	VOGTLE ELECTRIC GENERATING PLANT	195256	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
7070103/001	1154DH6RH	0532261	23-May-06	VOGTLE ELECTRIC GENERATING PLANT	1657352	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7074261/001	1154SH9RH	0534223	27-Feb-07	VOGTLE ELECTRIC GENERATING PLANT	1822538	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
7079010/001	1154DH5RH	0535512	4-Sep-07	VOGTLE ELECTRIC GENERATING PLANT	1968476	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
7079010/001	1154DH5RH	0535511	4-Sep-07	VOGTLE ELECTRIC GENERATING PLANT	1968476	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
7079010/001	1154DH5RH	0535500	4-Sep-07	VOGTLE ELECTRIC GENERATING PLANT	1968476	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
7079010/001	1154DH5RH	0535505	4-Sep-07	VOGTLE ELECTRIC GENERATING PLANT	1968476	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
7079010/001	1154DH5RH	0535497	4-Sep-07	VOGTLE ELECTRIC GENERATING PLANT	1968476	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
7079010/001	1154DH5RH	0535508	4-Sep-07	VOGTLE ELECTRIC GENERATING PLANT	1968476	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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INDIANA MICHIGAN POWER CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
01531021 REV 002	1154SH9RCN0156	0538691	4-Mar-09	COOK NUCLEAR PLANT	2258323	±(2%URL+0.5%span)	±(2%URL±1.75%span)	N/A
01531021 REV 002	1154HH5RAN0156	0538700	4-Mar-09	COOK NUCLEAR PLANT	2258323	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
01531021 REV 002	1154SH9RCN0156	0538696	4-Mar-09	COOK NUCLEAR PLANT	2258323	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

KOREA ELECTRIC POWER CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
OH962Y461300	1154DH5RB	0513020	27-Mar-97	UNSPECIFIED	108610	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
COONYG4-C040-561	1154SH9RB	0520775	5-Apr-01	UNSPECIFIED	806985	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.5\%span)$	N/A
OH962Y364600	1154SH9RB	0513542	20-Jun-97	UNSPECIFIED	143776	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.5\%span)$	N/A
OH962Y364600	1154SH9RB	0513541	20-Jun-97	UNSPECIFIED	143776	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
OH972K100100	1154HH5RB	0514959	2-Jun-98	UNSPECIFIED	303530	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+6.25\%span)$	$\pm(2\%URL+5.25\%span)$
OH992KA-0150-0	1154SH9RBN0110	0518414	7-Oct-99	UNSPECIFIED	547210	$\pm(3\%URL+1\%span)$	$\pm(3\%URL+8\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012
KOREA HYDRO AND NUCLEAR POWER CO LTD

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RRI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NOW ZERO BASED CALIBRATIONS*
B05-I230-A00	1154DH6RA	0541641	1-Nov-10	SHIN WOLSONG 1 & 2	1890467	±1%URL+1%span	±1%URL+3%span	±2%URL+2%span
B05-I230-A00	1154DH6RA	0541638	1-Nov-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+2.75%span	±2%URL+1.75%span
B05-I230-A00	1154DH4RA	0541649	1-Nov-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+2%span	±2%URL+1%span
B05-I230-A00	1154DH6RA	0541639	1-Nov-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+2%span	±2%URL+1%span
B05-I230-A00	1154DH4RA	0541644	1-Nov-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
B05-I230-A00	1154DH4RA	0541646	1-Nov-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
B05-I230-A00	1154DH6RA	0541640	1-Nov-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
B05-I230-A00	1154DH6RA	0538216	24-May-10	WOLSONG NPP UNIT 1.AND 2	1890467	±1%URL+1%span	±1%URL+1.25%span	±2%URL+0.25%span
C-00-5YGC-N024-011	1154HH6R2	0520884	18-Apr-01	UNSPECIFIED	815209	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
C01NKR4-CD68-470	1154HHRAND0037	0521668	6-Sep-01	UNSPECIFIED	883107	±1%URL+1%span	±1%URL+1.25%span	±2%URL+0.25%span
C090014131	1154SHRBAND0037	0541967	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±2%URL+0.5%span	±2%URL+4.25%span	N/A
C090014131	1154HHSRBN0158	0541976	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±1%URL+1%span	±1%URL+3.75%span	±2%URL+2.75%span
C090014131	1154HHSRAND132	0542112	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±1%URL+1%span	±1%URL+3%span	±2%URL+2%span
C090014131	1154HHSRAND151	0542111	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±1%URL+1%span	±1%URL+3%span	±2%URL+2%span
C090014131	1154SHSRAND132	0542113	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±2%URL+0.5%span	±2%URL+1%span	N/A
C090014131	1154HHSRAND151	0542110	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±1%URL+1%span	±1%URL+2%span	±2%URL+1%span
C090014131	1154SHSRBN0158	0541977	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±2%URL+0.5%span	±2%URL+0.75%span	N/A
C090014131	1154HHSRBN0158	0541975	1-Dec-10	KORI UNITS 1, 2, 3 & 4	2606732	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
C090014134	1154SHSRBN0105	0542035	10-Dec-10	YONGGWAANS UNITS 1, 2 & 3	2632117	±2%URL+0.5%span	±2%URL+1%span	N/A
K040066381 / CREDIT NO. M0677403NS00107	1154HH4RB	0527899	20-May-04	KORI UNIT 4	1323776	±1%URL+1%span	±1%URL+1.25%span	±2%URL+0.25%span
K040066381 / CREDIT NO. M0677403NS00107	1154HH4RB	0527897	20-May-04	KORI UNIT 4	1323776	±1%URL+1%span	±1%URL+1.25%span	±2%URL+0.25%span
K040117011/CREDIT NO. M0677403NS0009E	1154HH5RA	0527891	20-May-04	KORI UNIT 3	1323657	±1%URL+1%span	±1%URL+3%span	±2%URL+2%span
K040117011/CREDIT NO. M0677403NS0009E	1154HH5RA	0527894	20-May-04	KORI UNIT 3	1323657	±1%URL+1%span	±1%URL+2.5%span	±2%URL+1.5%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH6RAND132	0531094	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+3.25%span	±2%URL+2.25%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH6RAND132	0531090	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+3%span	±2%URL+2%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH6RAND132	0531092	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+2.5%span	±2%URL+1.5%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH5RAND132	0531096	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+2.25%span	±2%URL+1.25%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH5RAND132	0531101	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+2.25%span	±2%URL+1.25%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH5RAND132	0531095	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+2.25%span	±2%URL+1.25%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH5RAND132	0531102	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+2%span	±2%URL+1%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH5RAND132	0531097	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+2%span	±2%URL+1%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH6RAND132	0531089	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH6RAND132	0531093	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
K050651011 / CREDIT NO. M0677511NS00135	1154DH5RAND132	0531100	16-Dec-05	KORI UNITS 3 & 4	1622521	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
K060238011 / M0677604NS00114	1154DH5RAND132	0533124	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+3.25%span	±2%URL+2.25%span
K060238011 / M0677604NS00114	1154DH6RAND132	0533132	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+2.75%span	±2%URL+1.75%span
K060238011 / M0677604NS00114	1154DH5RAND132	0533331	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+2.75%span	±2%URL+1.75%span
K060238011 / M0677604NS00114	1154DH5RAND132	0533326	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+1.75%span	±2%URL+0.75%span
K060238011 / M0677604NS00114	1154DH5RAND132	0533344	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+1.75%span	±2%URL+0.75%span
K060238011 / M0677604NS00114	1154DH5RAND132	0533128	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
K060238011 / M0677604NS00114	1154DH6RAND132	0533134	31-Aug-06	KORI UNITS 3 & 4	1697807	±1%URL+1%span	±1%URL+1.5%span	±2%URL+0.5%span
K060734371 REV 01	1154SHRBAND0110	0534191	25-Apr-07	KORI	1840159	±3%URL+1%span	±3%URL+3%span	N/A
K060734371 REV 01	1154SHRBAND0087	0534190	25-Apr-07	KORI	1840159	±2%URL+0.5%span	±2%URL+1.25%span	N/A
K070085011	1154DH5RAND132	0534460	12-Apr-07	KORI	1868534	±1%URL+1%span	±1%URL+3%span	±2%URL+2%span
K070085011	1154DH5RAND132	0534463	12-Apr-07	KORI	1868534	±1%URL+1%span	±1%URL+2.75%span	±2%URL+1.75%span

K070085001	1154DH5RAM0132	0534456	12-Apr-07	KORI	1868534	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
K070085011	1154DH5RAM0132	0534450	12-Apr-07	KORI	1868534	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
K070085001	1154DH5RAM0132	0534451	12-Apr-07	KORI	1868534	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
K070085011	1154DH5RAM0132	0534458	12-Apr-07	KORI	1868534	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
K070085001	1154DH5RAM0132	0534459	12-Apr-07	KORI	1868534	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
K070085011	1154DH5RAM0132	0534457	12-Apr-07	KORI	1868534	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
K070299511	1154DH6RAM0132	0535793	29-Nov-07	KORI UNIT 3	1949332	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
K070299511	1154DH4RAM0132	0535893	29-Nov-07	KORI UNIT 3	1949332	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
K080015021	1154DH5RAM0132	0536804	2-Jun-08	KORI UNITS 3 & 4	2111881	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
K080015021	1154HH5RAM0132	0536806	2-Jun-08	KORI UNITS 3 & 4	2111881	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
K090049371	1154HH5RUBN0158	0539626	6-Aug-09	KORI UNIT 1	2355295	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
K090296041	1154HH5RAM0132	0540562	25-Jan-10	KORI UNIT 3	2461750	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
K090414581	1154DH5RAM0132	0540871	2-Mar-10	KORI UNIT 4	2465684	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
K090414581	1154HH5RAM0132	0540862	2-Mar-10	KORI UNIT 4	2465684	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
K100056441	1154HH5RAM0151	0542120	22-Nov-10	KORI UNIT 3	2599946	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
K100056441	1154DH4RAM0132	0542121	22-Nov-10	KORI UNIT 3	2599946	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
K100298401	1154SH9RBN011D	0542056	24-Nov-10	KORI UNIT 1	2599726	±(3%URL+1%span)	±(3%URL+5.75%span)	N/A
K100298401	1154SH9RBN011D	0542055	24-Nov-10	KORI UNIT 1	2599726	±(3%URL+1%span)	±(3%URL+3.75%span)	N/A
NKR3-01M0127-530	1154HH4RAM0037	0523484	15-May-02	UNSPECIFIED	994792	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
NKR3-01M0127-530	1154SH9RA	0523485	15-May-02	UNSPECIFIED	994792	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
NKR3-02M0013-010	1154DH4RA	0523884	28-Jun-02	UNSPECIFIED	1025207	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
NKR3-02M0013-010	1154SH9RA	0523888	28-Jun-02	UNSPECIFIED	1025207	±(2%URL+0.5%span)	±(2%URL+2.5%span)	N/A
NKR3-02M0013-010	1154DH4RA	0523882	28-Jun-02	UNSPECIFIED	1025207	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
NKR3-02M0013-010	1154DH4RA	0523885	28-Jun-02	UNSPECIFIED	1025207	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
NKR3-02M0155	1154SH9RA	0524897	9-Jan-02	KORI	1117010	±(2%URL+0.5%span)	±(2%URL+2.75%span)	N/A
NKR3-02M0155	1154HH5RA	0524802	9-Jan-02	KORI	1117010	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
NKR3-02M0155	1154SH9RA	0524896	9-Jan-02	KORI	1117010	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
NKR3-02M0155	1154DH4RA	0524806	9-Jan-02	KORI	1117010	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
NKR3-02M0155	1154HH5RA	0524800	9-Jan-02	KORI	1117010	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
NKR3-02M0155	1154DH4RA	0524804	9-Jan-02	KORI	1117010	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
NKR3-02M0155	1154HH5RA	0524801	9-Jan-02	KORI	1117010	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
NU13-02M0069-111/Credit No. M06772NS00250	1154SH9RBN0060	0525365	8-Apr-03	ULCHIN 3	1145839	±(3%URL+1%span)	±(3%URL+6.75%span)	N/A
NU13-02M0069-111/Credit No. M06772NS00250	1154DH8RBN0059	0525369	8-Apr-03	ULCHIN 3	1145839	±(1.5%URL+1%span)	±(1.5%URL+5%span)	±(2%URL+5%span)
NU15-02M0013-020/Credit No. M0677301NS00185	1154HH4RB	0525160	7-Apr-03	ULCHIN 5 & 6	1143647	±(1%URL+1%span)	±(1%URL+4.25%span)	±(2%URL+3.25%span)
NU15-02M0013-020/Credit No. M0677301NS00185	1154SH9RBN0105	0525159	7-Apr-03	ULCHIN 5 & 6	1143647	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
NU15-02M0013-020/Credit No. M0677301NS00185	1154DH8RBN0059	0525164	7-Apr-03	ULCHIN 5 & 6	1143647	±(1.5%URL+1%span)	±(1.5%URL+2.5%span)	±(2%URL+2.5%span)
NU15-02M0013-020/Credit No. M0677301NS00185	1154DH4RB	0525161	7-Apr-03	ULCHIN 5 & 6	1143647	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
NYG1-02M0142-010	1154SH9RB	0524655	21-Dec-02	YONGGWANG	1110703	±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
NYG1-02M0142-010	1154SH9RB	0524653	21-Dec-02	YONGGWANG	1110703	±(2%URL+0.5%span)	±(2%URL+2%span)	N/A
NYG1-02M0142-010	1154DH4RB	0524661	21-Dec-02	YONGGWANG	1110703	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
NYG1-02M0142-010	1154DH4RB	0524664	21-Dec-02	YONGGWANG	1110703	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
NYG1-02M0142-010	1154SH9RB	0524654	21-Dec-02	YONGGWANG	1110703	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
NYG1-02M0142-010	1154DH4RB	0524660	21-Dec-02	YONGGWANG	1110703	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
NYG1-02M0142-010	1154DH4RB	0524668	21-Dec-02	YONGGWANG	1110703	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
NYG3-01M0071-040	1154DH4RB	0522848	31-Jan-02	UNSPECIFIED	956397	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
NYG3-01M0071-040	1154DH4RB	0522849	31-Jan-02	UNSPECIFIED	956397	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
NYG3-01M0071-040	1154SH9RB	0522852	31-Jan-02	UNSPECIFIED	956397	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
NYG3-02M0053-080/Credit No. M0677212NS00274	1154SH9RB	0525247	21-Mar-03	KORI UNIT 2	1146894	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
NYG3-02M0053-080/Credit No. M0677212NS00281	1154SH9RB	0525242	24-Mar-03	KORI UNIT 2	1146894	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
NYG3-02M0053-080/Credit No. M0677212NS00281	1154DH4RB	0525243	24-Mar-03	KORI UNIT 2	1146894	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
NYG5-02M0116-261	1154SH9RBN0105	0525041	25-Feb-03	YONGGWANG	1132765	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A

S05-J230-A00	1154DH6RA	0536475	5-Sep-08	XO-RI NPP UNIT 1 AND 2	1890446	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
S05-J230-A00	1154DH6RA	0539563	9-Sep-09	XO-RI NPP UNIT 1 AND 2	1890446	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
S05-J230-A00	1154DH4RA	0539612	9-Sep-09	XO-RI NPP UNIT 1 AND 2	1890446	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
T08-J230-A00	1154DH4RA	0542331	22-Dec-10	SHW KORI UNITS 3 AND 4	2401346	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
T08-J230-A00	1154DH4RA	0542324	22-Dec-10	SHW KORI UNITS 3 AND 4	2401346	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
T08-J230-A00	1154DH4RA	0542327	22-Dec-10	SHW KORI UNITS 3 AND 4	2401346	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527503	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527511	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527504	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527510	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527505	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527506	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
U09M1002H1 CREDIT NO. M0677402NS00107	1154HH4RB	0527507	31-Mar-04	ULCHIN	1311098	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
U040275481/CREDIT NO. M0677407NS00153	1154SH4RB	0528404	7-Oct-04	ULCHIN UNIT 4	1385254	±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
U040275481/CREDIT NO. M0677407NS00153	1154DH4RBND0059	0528405	7-Oct-04	ULCHIN UNIT 4	1385254	±(1.5%URL+1%span)	±(1.5%URL+5%span)	±(2%URL+5%span)
U040275481/CREDIT NO. M0677407NS00153	1154HH4RB	0528402	7-Oct-04	ULCHIN UNIT 4	1385254	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U040275481/CREDIT NO. M0677407NS00153	1154HH4RB	0528403	7-Oct-04	ULCHIN UNIT 4	1385254	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U040827011/CREDIT NUMBER M0677408NS00153	1154DH4RBND0132	0528358	30-Sep-04	ULCHIN UNITS 1 & 2	1400505	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U040827011/CREDIT NUMBER M0677408NS00153	1154DH4RBND0132	0528355	30-Sep-04	ULCHIN UNITS 1 & 2	1400505	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
U040827011/CREDIT NUMBER M0677408NS00153	1154DH4RBND0132	0528364	30-Sep-04	ULCHIN UNITS 1 & 2	1400505	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
U040711601/CREDIT NO. M0677508NS0009E	1154DH6RBND0132	0529886	23-Jun-05	ULCHIN UNITS 1 & 2	1520892	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U040711601/CREDIT NO. M0677508NS0009E	1154SH4RBND0132	0529881	23-Jun-05	ULCHIN UNITS 1 & 2	1520892	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
U040711601/CREDIT NO. M0677508NS0009E	1154DH6RBND0132	0529885	23-Jun-05	ULCHIN UNITS 1 & 2	1520892	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U040711601/CREDIT NO. M0677508NS0009E	1154DH5RBND0132	0529908	23-Jun-05	ULCHIN UNITS 1 & 2	1520892	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U040711601/CREDIT NO. M0677508NS0009E	1154DH5RBND0132	0529903	23-Jun-05	ULCHIN UNITS 1 & 2	1520892	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U050124391/CREDIT NO. M0677508NS0021C	1154DH6RBND0132	0530526	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+4.25%span)	±(2%URL+3.25%span)
U050124391/CREDIT NO. M0677508NS0021C	1154DH5RBND0132	0530532	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U050124391/CREDIT NO. M0677508NS0021C	1154DH6RBND0132	0530525	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530468	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
U050124391/CREDIT NO. M0677508NS0021C	1154DH7RB	0530469	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U050124391/CREDIT NO. M0677508NS0021C	1154DH6RBND0132	0530521	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530461	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
U050124391/CREDIT NO. M0677508NS0021C	1154DH6RBND0132	0530522	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U050124391/CREDIT NO. M0677508NS0021C	1154DH6RBND0132	0530524	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530607	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
U050124391/CREDIT NO. M0677508NS0021C	1154DH6RBND0132	0530527	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530462	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530463	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
U050124391/CREDIT NO. M0677508NS0021C	1154HHSRBND0132	0530486	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U050124391/CREDIT NO. M0677508NS0021C	1154HHSRBND0132	0530481	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
U050124391/CREDIT NO. M0677508NS0021C	1154DH5RBND0132	0530531	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
U050124391/CREDIT NO. M0677508NS0021C	1154HHSRBND0132	0530480	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530610	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U050124391/CREDIT NO. M0677508NS0021C	1154SH4RBND0132	0530608	13-Oct-05	ULCHIN UNITS 1 & 2	1563249	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U050896331 / CREDIT NO. M0677511NS00121	1154SH4RBND0060	0531689	24-Apr-06	ULCHIN	1625202	±(3%URL+1%span)	±(3%URL+5.25%span)	N/A
U050896331 / CREDIT NO. M0677511NS00121	1154HHSRB	0531723	24-Apr-06	ULCHIN	1625202	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
U050896331 / CREDIT NO. M0677511NS00121	1154DH5RB	0531724	24-Apr-06	ULCHIN	1625202	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
U050896331 / CREDIT NO. M0677511NS00121	1154DH4RB	0531606	27-Feb-06	ULCHIN	1625202	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
U050896331 / CREDIT NO. M0677511NS00121	1154DH6RBND0059	0531607	24-Apr-06	ULCHIN	1625202	±(1.5%URL+1%span)	±(1.5%URL+2.25%span)	±(2%URL+2.25%span)
U0607936271	1154SH4RBND0105	0534199	17-May-07	ULCHIN	1821584	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
U060771291 / M04C3701NS00413	1154DH6RB	0534309	23-Apr-07	ULCHIN	1851325	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)

U060771291 / MD4C3701NS00413	1154HHGRB	0534312	23-Apr-07	ULCHIM	1853925	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
U060771291 / MD4C3701NS00413	1154DHGRB	0534311	23-Apr-07	ULCHIM	1853925	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U060907301 / MD677701NS00242	1154HHSRB	0534671	22-Jun-07	ULCHIM	1842477	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
U070797461	1154HHSRB	0537205	29-Aug-08	ULCHIM UNIT 1	2143207	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
U070797461	1154HHSRB	0537196	29-Aug-08	ULCHIM UNIT 1	2143207	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U070797461	1154HHSRB	0537197	29-Aug-08	ULCHIM UNIT 1	2143207	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U070797461	1154HHSRB	0537219	29-Aug-08	ULCHIM UNIT 1	2143207	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U070797461	1154HHSRB	0537203	29-Aug-08	ULCHIM UNIT 1	2143207	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U070960321	1154SH9RBM0105	0536866	17-Jun-08	ULCHIM UNIT 6	2077630	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
U070960321	1154SH9RBM0105	0536867	17-Jun-08	ULCHIM UNIT 6	2077630	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U080042401	1154H6GRB	0537442	24-Sep-08	ULCHIM UNITS 1 & 2	2180373	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U080183401	1154SH9RBM0105	0537895	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
U080183401	1154SH9RBM0105	0537900	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
U080183401	1154SH9RBM0105	0537896	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U080183401	1154SH9RBM0105	0537898	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U080183401	1154HHSRB	0538073	18-Nov-08	ULCHIM UNIT 5	2213153	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
U080183401	1154SH9RBM0105	0537901	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U080183401	1154SH9RBM0105	0537894	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U080183401	1154SH9RBM0105	0537897	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U080183401	1154SH9RBM0105	0537899	18-Nov-08	ULCHIM UNIT 5	2213153	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U090057611	1154SH9RBM0060	0539760	26-Aug-09	ULCHIM UNIT 6	2359125	±(3%URL+1%span)	±(3%URL+6.75%span)	N/A
U090057611	1154HHSRB	0539588	26-Aug-09	ULCHIM UNIT 6	2359125	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
U090057611	1154HHSRB	0539621	26-Aug-09	ULCHIM UNIT 6	2359125	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U090057611	1154HHSRB	0539623	26-Aug-09	ULCHIM UNIT 6	2359125	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U090057611	1154SH9RBM0060	0539759	26-Aug-09	ULCHIM UNIT 6	2359125	±(3%URL+1%span)	±(3%URL+2.25%span)	N/A
U090057611	1154HHSRB	0539624	26-Aug-09	ULCHIM UNIT 6	2359125	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U090057611	1154SH9RBM0060	0539757	26-Aug-09	ULCHIM UNIT 6	2359125	±(3%URL+1%span)	±(3%URL+2.25%span)	N/A
U090165541	1154DHSRB	0539663	25-Aug-09	ULCHIM UNIT 2	2360574	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
U090165541	1154DHSRB	0539662	25-Aug-09	ULCHIM UNIT 2	2360574	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U090165541	1154DHSRB	0539660	25-Aug-09	ULCHIM UNIT 2	2360574	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U090633621	1154DHSRB	0540588	12-Feb-10	ULCHIM UNIT 1	2464304	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U090633621	1154DHSRB	0540589	12-Feb-10	ULCHIM UNIT 1	2464304	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U090633621	1154SH9RBM	0540717	12-Feb-10	ULCHIM UNIT 1	2464304	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
U100519011	1154DHSRB	0544236	13-Sep-11	ULCHIM UNIT 2	3069275	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U100519011	1154DHSRB	0544237	13-Sep-11	ULCHIM UNIT 2	3069275	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U110094501	1154DHGRB	0544519	9-Sep-11	ULCHIM UNITS 1 & 2	3078658	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U110094501	1154DHGRB	0544519	9-Sep-11	ULCHIM UNITS 1 & 2	3078658	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
U110262011	1154DHSRB	0544681	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
U110262011	1154DHSRB	0544683	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U110262011	1154DHSRB	0544683	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
U110262011	1154DHSRB	0544686	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
U110262011	1154DHSRB	0544690	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
U110262011	1154DHSRB	0544682	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
U110262011	1154DHSRB	0544688	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U110262011	1154DHSRB	0544692	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
U110262011	1154DHSRB	0544556	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U110262011	1154DHSRB	0544685	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U110262011	1154DHSRB	0544690	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U110262011	1154DHSRB	0544629	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
U110262011	1154DHSRB	0544634	16-Sep-11	ULCHIM UNITS 1 & 2	3078803	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)

Y030554891 / CREDIT NO. M0677402NS00192	1154DH8RB	0527417	22-Mar-04	UNSPECIFIED	1311311	±(1.5%URL+1%span)	±(1.5%URL+5%span)	±(2%URL+5%span)
Y030554891 / CREDIT NO. M0677402NS00192	1154DH5RB	0527453	22-Mar-04	UNSPECIFIED	1311311	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
Y030554891 / CREDIT NO. M0677402NS00192	1154DH8RB	0527418	22-Mar-04	UNSPECIFIED	1311311	±(1.5%URL+1%span)	±(1.5%URL+3.5%span)	±(2%URL+3.5%span)
Y030554891 / CREDIT NO. M0677402NS00192	1154DH5RB	0527449	22-Mar-04	UNSPECIFIED	1311311	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
Y030554891 / CREDIT NO. M0677402NS00192	1154DH4RB	0527451	22-Mar-04	UNSPECIFIED	1311311	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
Y030554891 / CREDIT NO. M0677402NS00192	1154HH6RB	0527450	22-Mar-04	UNSPECIFIED	1311311	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
Y030554891 / CREDIT NO. M0677402NS00192	1154DH4RB	0527452	22-Mar-04	UNSPECIFIED	1311311	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
Y04-0083-010/CREDIT NO. M0677-406NS-0025C	1154HH5RB	0527816	29-Jun-04	YONGGWANG UNIT 1	1362819	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
Y04-0083-010/CREDIT NO. M0677-406NS-0025C	1154HH5RB	0527817	29-Jun-04	YONGGWANG UNIT 1	1362819	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
Y04-0083-010/CREDIT NO. M0677-406NS-0025C	1154HH5RB	0527813	29-Jun-04	YONGGWANG UNIT 1	1362819	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
Y04-0083-010/CREDIT NO. M0677-406NS-0025C	1154HH5RB	0527822	29-Jun-04	YONGGWANG UNIT 1	1362819	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
Y040869983/CREDIT NO. M0677411NS00192	1154DH4RB	0529402	11-Mar-05	YONGGWANG	1445494	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
Y040869983/CREDIT NO. M0677411NS00192	1154DH4RB	0529403	11-Mar-05	YONGGWANG	1445494	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
Y040689581	1154SH9RB	0530390	14-Sep-05	YONGGWANG UNITS 1 & 2	1534627	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
Y040689581	1154SH9RB	0530391	14-Sep-05	YONGGWANG UNITS 1 & 2	1534627	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
Y05042601	1154SH9RB	0530308	12-Sep-05	YONGGWANG UNITS 1 & 2	1560135	±(2%URL+0.5%span)	±(2%URL+5.5%span)	N/A
Y05042601	1154SH9RB	0530309	12-Sep-05	YONGGWANG UNITS 1 & 2	1560135	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
Y05042601	1154SH9RB	0530307	12-Sep-05	YONGGWANG UNITS 1 & 2	1560135	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
Y050143011	1154HH5RB	0530359	19-Sep-05	YONGGWANG UNITS 1 & 2	1560255	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
Y050143011	1154HH5RB	0530361	19-Sep-05	YONGGWANG UNITS 1 & 2	1560255	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
Y050261581	1154DH8RB	0531370	27-Feb-06	YONGGWANG	1566671	±(1.5%URL+1%span)	±(1.5%URL+2.75%span)	±(2%URL+2.75%span)
Y050572411	1154SH9RB	0532115	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
Y050572411	1154SH9RB	0532119	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
Y050572411	1154SH9RB	0532120	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
Y050572411	1154SH9RB	0532113	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
Y050572411	1154SH9RB	0532118	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
Y050572411	1154SH9RB	0532117	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
Y050572411	1154SH9RB	0532111	12-Jun-06	YONGGWANG UNITS 5 & 6	1650803	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
Y060238481 / M0677609NS0022E	1154DH5RB	0538847	19-Dec-06	YONGGWANG	1779089	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
Y060238481 / M0677609NS0022E	1154DH5RB	0538850	19-Dec-06	YONGGWANG	1779089	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
Y060479501 / M0677612NS00057	1154DH5RB	0534323	25-Apr-07	YONGGWANG	1828882	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
Y070299451	1154DH8RB	0536116	18-Jan-08	YONGGWANG UNIT 5	1993245	±(1.5%URL+1%span)	±(1.5%URL+3.5%span)	±(2%URL+3.5%span)
Y070299451	1154DH8RB	0536122	18-Jan-08	YONGGWANG UNIT 5	1993245	±(1.5%URL+1%span)	±(1.5%URL+3.5%span)	±(2%URL+3.5%span)
Y070299451	1154DH8RB	0536115	18-Jan-08	YONGGWANG UNIT 5	1993245	±(1.5%URL+1%span)	±(1.5%URL+3.25%span)	±(2%URL+3.25%span)
Y070299451	1154DH8RB	0536121	18-Jan-08	YONGGWANG UNIT 5	1993245	±(1.5%URL+1%span)	±(1.5%URL+3%span)	±(2%URL+3%span)
Y070491511	1154HH6RB	0536553	13-May-08	YONGGWANG UNIT 4	2076320	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
Y070491511	1154HH6RB	0536552	13-May-08	YONGGWANG UNIT 4	2076320	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
Y080003531	1154DH8RB	0537318	10-Sep-08	YONGGWANG UNIT 6	2157958	±(1.5%URL+1%span)	±(1.5%URL+4.5%span)	±(2%URL+4.5%span)
Y080003531	1154DH8RB	0537317	10-Sep-08	YONGGWANG UNIT 6	2157958	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
Y090528481	1154SH9RB	0540846	23-Feb-10	YONGGWANG UNIT 2	2465840	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
Y090528481	1154SH9RB	0540847	23-Feb-10	YONGGWANG UNIT 2	2465840	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
Y110304566	1154HH5RB	0545288	23-Nov-11	YONGGWANG UNIT 5	3177117	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
Y110304566	1154HH5RB	0545289	23-Nov-11	YONGGWANG UNIT 5	3177117	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012
NORTHEAST NUCLEAR ENERGY CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
954476	1154DH4RCN0011	0512657	30-Oct-96	UNSPECIFIED		±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
02084603	1154SH9RCN0011	0517222	10-Mar-99	MILLSTONE NUCLEAR PWR STATION	487324	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

ONTARIO POWER GENERATION INC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00078670	1154DH8RCN0121	0522202	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
00078670	1154DH8RCN0121	0522203	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
00078670	1154DH8RCN0121	0522204	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
00078670	1154DH8RCN0121	0522207	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
00078670	1154DH8RCN0121	0522210	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
00078670	1154DH8RCN0121	0521407	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
00078670	1154DH8RCN0121	0521391	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0521396	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522213	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522214	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0521394	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522084	26-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522086	26-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522110	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522200	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522201	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522205	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522206	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522215	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522217	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
00078670	1154DH8RCN0121	0522109	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0522211	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0522085	26-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0522219	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0521406	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0522208	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0522209	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.5\%span)$	$\pm(2\%URL+1.5\%span)$
00078670	1154DH8RCN0121	0522216	1-Nov-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00078670	1154DH8RCN0121	0522108	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00078670	1154DH8RCN0121	0522083	26-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00078670	1154DH8RCN0121	0522087	26-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
00078670	1154DH8RCN0121	0521397	27-Sep-01	PICKERING NUCLEAR	846407	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$

00078670	1154DH8RCN0121	0522089	26-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00078670	1154DH8RCN0121	0522107	27-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00078670	1154DH8RCN0121	0522112	27-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00078670	1154DH8RCN0121	0522220	1-Nov-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00078670	1154DH8RCN0121	0521389	26-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00078670	1154DH8RCN0121	0521404	1-Nov-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
00078670	1154DH8RCN0121	0522113	27-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
00078670	1154DH8RCN0121	0521403	1-Nov-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
00078670	1154DH8RCN0121	0522111	27-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
00078670	1154DH8RCN0121	0521386	26-Sep-01	PICKERING NUCLEAR	846407	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
P.O. 00119129	1154DH8RCN0121	0526311	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
P.O. 00119129	1154DH8RCN0121	0526314	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
P.O. 00119129	1154DH8RCN0121	0526320	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
P.O. 00119129	1154DH8RCN0121	0526307	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
P.O. 00119129	1154DH8RCN0121	0526304	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
P.O. 00119129	1154DH8RCN0121	0526309	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
P.O. 00119129	1154DH8RCN0121	0526313	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
P.O. 00119129	1154DH8RCN0121	0526315	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
P.O. 00119129	1154DH8RCN0121	0526317	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
P.O. 00119129	1154DH8RCN0121	0526319	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
P.O. 00119129	1154DH8RCN0121	0526308	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
P.O. 00119129	1154DH8RCN0121	0526316	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
P.O. 00119129	1154DH8RCN0121	0526305	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
P.O. 00119129	1154DH8RCN0121	0526306	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
P.O. 00119129	1154DH8RCN0121	0526318	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
P.O. 00119129	1154DH8RCN0121	0526312	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
P.O. 00119129	1154DH8RCN0121	0526303	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
P.O. 00119129	1154DH8RCN0121	0526310	11-Sep-03	PICKERING NUCLEAR	1220757	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

PACIFIC GAS AND ELECTRIC CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
129114	1154SH9RC	0532412	19-Jun-06	DIABLO CANYON NPP	1694999	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.5\%span)$	N/A
130124	1154DH5RC	0533270	18-Sep-06	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
130124	1154DH5RC	0534176	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3\%span)$	$\pm(2\%URL+2\%span)$
130124	1154DH5RC	0534178	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
130124	1154DH5RC	0534180	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
130124	1154DH5RC	0532692	7-Jul-06	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
130124	1154DH5RC	0533271	18-Sep-06	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
130124	1154DH5RC	0534175	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
130124	1154DH5RC	0533268	18-Sep-06	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
130124	1154DH5RC	0533269	18-Sep-06	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
130124	1154DH5RC	0534173	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
130124	1154DH5RC	0534174	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
130124	1154DH5RC	0534181	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
130124	1154DH5RC	0533273	18-Sep-06	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
130124	1154DH5RC	0534170	12-Mar-07	DIABLO CANYON NPP	1732406	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
3500892008	1154DH5RC	0543822	12-May-11	DIABLO CANYON NPP	3052849	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.75\%span)$	$\pm(2\%URL+2.75\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

PROGRESS ENERGY FLORIDA INC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00257132	1154HH5RAN0018	0532124	8-May-06	CRYSTAL RIVER UNIT 3	1656652	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00498092	1154HH5RAN0018	0541355	18-Jun-10	CRYSTAL RIVER UNIT 3	2537331	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
00382610 REV 1	1154HH5RAN0018	0537145	16-Jul-08	CRYSTAL RIVER UNIT 3	2147591	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

PUBLIC SERVICE ELECTRIC AND GAS/PSEG NUCLEAR LLC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
4500158649	1154SH9RA	0524108	27-Aug-02	SALEM/HOPE CREEK	1056075	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+1.5\%span)$	N/A
4500158649	1154SH9RA	0524106	27-Aug-02	SALEM/HOPE CREEK	1056075	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
4500158649	1154SH9RA	0524107	27-Aug-02	SALEM/HOPE CREEK	1056075	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A
4500226996	1154HH5RHN0133	0527159	25-Feb-04	SALEM/HOPE CREEK	1299544	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+4\%span)$	$\pm(2\%URL+3\%span)$
4500226996	1154HH4RHN0132	0527183	25-Feb-04	SALEM/HOPE CREEK	1299544	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
4500226996	1154HH4RHN0132	0527184	25-Feb-04	SALEM/HOPE CREEK	1299544	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
4500226996	1154HH4RHN0132	0527180	25-Feb-04	SALEM/HOPE CREEK	1299544	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
4500226996	1154HH4RHN0132	0527179	25-Feb-04	SALEM/HOPE CREEK	1299544	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
4500272877	1154HH5RHN0133	0529115	27-Jan-05	SALEM/HOPE CREEK	1441744	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
4500274724	1154HH4RHN0132	0529126	31-Jan-05	SALEM/HOPE CREEK	1446829	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.25\%span)$	$\pm(2\%URL+0.25\%span)$
4500307906	1154HH5RHN0133	0530246	9-Aug-05	SALEM/HOPE CREEK	1561710	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
4500307906	1154HH5RHN0133	0530248	9-Aug-05	SALEM/HOPE CREEK	1561710	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
4500364148	1154HH5RHN0132	0533546	7-Nov-06	SALEM/HOPE CREEK	1764905	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
4500364148	1154HH5RHN0132	0533547	7-Nov-06	SALEM/HOPE CREEK	1764905	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
4500515472	1154HH5RHN0132	0539361	29-Jun-09	SALEM/HOPE CREEK	2334989	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$
4500642438	1154HH5RHN0132	0544849	28-Sep-11	SALEM/HOPE CREEK	3115784	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+4\%span)$	$\pm(2\%URL+3\%span)$
4500671134	1154SH9RAN0132	0545629	15-Feb-12	SALEM/HOPE CREEK	3230752	$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+0.75\%span)$	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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SOUTHERN CALIFORNIA EDISON CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
6V274002-01	1154SH9RA	0508864	27-Jan-95	UNSPECIFIED		$\pm(2\%URL+0.5\%span)$	$\pm(2\%URL+3.25\%span)$	N/A
4500280588	1154DH8RAM0094	0541470	28-Jun-10	SAN ONOFRE NUCLEAR WHSE	2558542	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

STP NUCLEAR OPERATING CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
129109	11S4SH9RB	0541578	27-Jul-10	S TEXAS PROJECT EGS	2566298	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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TENNESSEE VALLEY AUTHORITY

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
00000151 REL 00324	1154DH5RC	0540003	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+4.5%span)	±(2%URL+3.5%span)
00000151 REL 00324	1154DH5RC	0539953	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
00000151 REL 00324	1154DH5RC	0540006	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
00000151 REL 00324	1154DH5RC	0539954	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
00000151 REL 00324	1154HH5RC	0539843	14-Sep-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
00000151 REL 00324	1154DH5RC	0540009	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
00000151 REL 00324	1154DH5RC	0540001	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
00000151 REL 00324	1154DH5RC	0539961	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
00000151 REL 00324	1154DH5RC	0540000	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
00000151 REL 00324	1154DH5RC	0540002	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
00000151 REL 00324	1154DH5RC	0539960	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
00000151 REL 00324	1154DH5RC	0540007	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
00000151 REL 00324	1154DH5RC	0539952	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
00000151 REL 00324	1154DH5RC	0539963	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
00000151 REL 00324	1154DH5RC	0539955	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
00000151 REL 00324	1154DH5RC	0539957	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
00000151 REL 00324	1154DH5RC	0539958	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154HH5RC	0539829	14-Sep-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154HH5RC	0539830	14-Sep-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154HH5RC	0539844	14-Sep-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154HH5RC	0539831	14-Sep-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154DH5RC	0539949	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154DH5RC	0539999	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
00000151 REL 00324	1154DH5RC	0540004	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
00000151 REL 00324	1154HH5RC	0539819	14-Sep-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
00000151 REL 00324	1154DH6RC	0539946	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
00000151 REL 00324	1154DH4RC	0539964	29-Oct-09	TVA WATTS BAR UNIT 2	2384837	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

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TXU ELECTRIC AND GAS/LUMINANT GENERATION CO

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNI SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
B0079178068 REV 1	1154DH5RC	0531930	28-Mar-06	COMANCHE PEAK SES	1591158	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.25\%span)$	$\pm(2\%URL+1.25\%span)$
B0079178068 REV 1	1154DH5RC	0531932	28-Mar-06	COMANCHE PEAK SES	1591158	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.5\%span)$	$\pm(2\%URL+0.5\%span)$
S 0545207 6D2	1154DH6RC	0535262	3-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+6\%span)$	$\pm(2\%URL+5\%span)$
S 0545207 6D2	1154DH6RC	0535268	3-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+5.25\%span)$	$\pm(2\%URL+4.25\%span)$
S 0545207 6D2	1154DH6RC	0535261	11-Sep-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+4.25\%span)$	$\pm(2\%URL+3.25\%span)$
S 0545207 6D2	1154DH6RC	0535260	3-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
S 0545207 6D2	1154DH6RC	0535263	13-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+3.25\%span)$	$\pm(2\%URL+2.25\%span)$
S 0545207 6D2	1154DH6RC	0535267	3-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
S 0545207 6D2	1154DH6RC	0535265	13-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+2.75\%span)$	$\pm(2\%URL+1.75\%span)$
S 0545207 6D2	1154DH6RC	0535266	3-Aug-07	COMANCHE PEAK SES	1952523	$\pm(1\%URL+1\%span)$	$\pm(1\%URL+1.75\%span)$	$\pm(2\%URL+0.75\%span)$

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

WESTINGHOUSE ELECTRIC CO LLC

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
9084056	1154SH9RBNO105	0512506	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+2.75%span)	N/A
9084056	1154SH9RBNO105	0512518	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
9084056	1154SH9RBNO105	0512515	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9084056	1154SH9RBNO105	0512519	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9084056	1154SH9RBNO105	0512516	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9084056	1154SH9RBNO105	0512520	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9084056	1154SH9RBNO105	0512753	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9084056	1154SH9RBNO105	0512507	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
9084056	1154SH9RBNO105	0512752	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
9084056	1154SH9RBNO105	0512528	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9084056	1154SH9RBNO105	0512514	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9084056	1154SH9RBNO105	0512513	12-Dec-96	YONGGWANG 3 & 4		±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9200056	1154SH9RBNO105	0510763	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510762	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510761	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510760	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510759	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510758	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510757	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510756	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510755	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510754	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510749	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510748	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510747	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510746	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510732	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510731	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510696	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO105	0510695	15-Jul-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
9200056	1154SH9RBNO060	0512118	25-Sep-96	ULCHIN 3 & 4		±(3%URL+1%span)	±(3%URL+8%span)	N/A
9200056	1154SH9RBNO060	0512117	25-Sep-96	ULCHIN 3 & 4		±(3%URL+1%span)	±(3%URL+8%span)	N/A
9200056	1154DH8RBNO059	0512108	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9200056	1154DH8RBNO059	0512105	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9200056	1154DH8RBNO059	0512104	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9200056	1154DH8RBNO059	0512103	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)

9200056	1154DH8RBNO059	0512102	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9200056	1154SH9RBNO105	0512198	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+2%span)	N/A
9200056	1154SH9RBNO105	0512195	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+2%span)	N/A
9200056	1154SH9RBNO105	0512196	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9200056	1154SH9RBNO105	0512199	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9200056	1154SH9RBNO105	0512197	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9200056	1154DH5RB	0512110	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
9200056	1154DH8RBNO059	0512109	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+2.25%span)	±(2%URL+2.25%span)
9200056	1154SH9RBNO105	0512283	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
9200056	1154DH5RB	0512111	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
9200056	1154SH9RBNO105	0512235	25-Sep-96	ULCHIN 3 & 4		±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
9200056	1154HH6RB	0512148	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
9200056	1154DH4RB	0512303	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9200056	1154DH5RB	0512365	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
9200056	1154DH4RB	0512305	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9200056	1154HH5RB	0512368	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9200056	1154DH4RB	0512306	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9200056	1154DH4RB	0512304	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9200056	1154DH4RB	0512302	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9200056	1154DH8RBNO059	0512107	25-Sep-96	ULCHIN 3 & 4		±(1.5%URL+1%span)	±(1.5%URL+1.5%span)	±(2%URL+1.5%span)
9200056	1154DH5RB	0512366	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9200056	1154DH4RB	0512308	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9200056	1154DH5RB	0512361	25-Sep-96	ULCHIN 3 & 4		±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9500056	1154SH9RBNO060	0514651	18-Sep-98	YONGGWANG 5 & 6	192629	±(3%URL+1%span)	±(3%URL+8%span)	N/A
9500056	1154DH5RB	0515304	18-Sep-98	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+6.75%span)	±(2%URL+5.75%span)
9500056	1154DH8RBNO059	0516639	11-May-99	YONGGWANG 5 & 6	192629	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9500056	1154DH8RBNO059	0516640	11-May-99	YONGGWANG 5 & 6	192629	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9500056	1154DH4RB	0516629	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
9500056	1154HH6RB	0516594	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
9500056	1154HH6RB	0515296	18-Sep-98	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
9500056	1154HH6RB	0515295	18-Sep-98	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
9500056	1154HH6RB	0515297	18-Sep-98	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
9500056	1154DH8RBNO059	0516638	11-May-99	YONGGWANG 5 & 6	192629	±(1.5%URL+1%span)	±(1.5%URL+2.75%span)	±(2%URL+2.75%span)
9500056	1154SH9RBNO105	0514659	18-Sep-98	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9500056	1154HH6RB	0516593	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
9500056	1154SH9RBNO060	0514650	18-Sep-98	YONGGWANG 5 & 6	192629	±(3%URL+1%span)	±(3%URL+2.75%span)	N/A
9500056	1154SH9RBNO105	0514660	18-Sep-98	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9500056	1154DH5RB	0516602	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
9500056	1154DH8RBNO059	0516641	11-May-99	YONGGWANG 5 & 6	192629	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
9500056	1154DH8RBNO059	0516642	11-May-99	YONGGWANG 5 & 6	192629	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
9500056	1154HH6RB	0516595	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
9500056	1154DH5RB	0516599	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
9500056	1154DH4RB	0516631	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)

9500056	1154SH9RBNO105	0516815	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
9500056	1154SH9RBNO105	0514656	18-Sep-98	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0514658	18-Sep-98	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0514661	18-Sep-98	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0516804	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0514672	18-Sep-98	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154HH6RB	0516591	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9500056	1154SH9RBNO105	0516812	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154DH4RB	0516630	11-May-99	YONGGWANG 5 & 6	192629	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9500056	1154SH9RBNO105	0516801	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0516802	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0516805	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9500056	1154SH9RBNO105	0516819	11-May-99	YONGGWANG 5 & 6	192629	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9600056	1154DHSRB	0519336	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+6.75%span)	±(2%URL+5.75%span)
9600056	1154DH8RBNO059	0520124	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9600056	1154DH8RBNO059	0520125	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9600056	1154DH8RBNO059	0520126	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9600056	1154DH8RBNO059	0520127	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9600056	1154DH8RBNO059	0520129	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9600056	1154DH8RBNO059	0520131	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+5.25%span)	±(2%URL+5.25%span)
9600056	1154SH9RBNO105	0519372	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+3.5%span)	N/A
9600056	1154SH9RBNO105	0519374	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+3%span)	N/A
9600056	1154SH9RBNO105	0519373	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+3%span)	N/A
9600056	1154SH9RBNO105	0519328	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2.5%span)	N/A
9600056	1154SH9RBNO105	0520150	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2.5%span)	N/A
9600056	1154SH9RBNO105	0519370	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
9600056	1154DH8RBNO059	0519470	25-Sep-00	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+3.5%span)	±(2%URL+3.5%span)
9600056	1154SH9RBNO105	0519326	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
9600056	1154SH9RBNO105	0519325	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
9600056	1154SH9RBNO105	0520173	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
9600056	1154HH6RB	0519408	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
9600056	1154SH9RBNO105	0520151	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+2%span)	N/A
9600056	1154HH6RB	0519412	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
9600056	1154HH6RB	0519407	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
9600056	1154SH9RBNO105	0520148	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
9600056	1154DH8RBNO059	0519468	25-Sep-00	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+2.75%span)	±(2%URL+2.75%span)
9600056	1154SH9RBNO105	0519369	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9600056	1154SH9RBNO105	0519371	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9600056	1154SH9RBNO105	0520149	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9600056	1154SH9RBNO105	0520152	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A
9600056	1154SH9RBNO060	0519391	25-Sep-00	ULCHIN 5 & 6	586278	±(3%URL+1%span)	±(3%URL+2.75%span)	N/A
9600056	1154HH6RB	0520280	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
9600056	1154SH9RBNO105	0520103	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.5%span)	N/A

9600056	1154DH8RBN0059	0519473	25-Sep-00	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+2.5%span)	±(2%URL+2.5%span)
9600056	1154SH9RBN0105	0520153	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
9600056	1154SH9RBN0060	0519392	25-Sep-00	ULCHIN 5 & 6	586278	±(3%URL+1%span)	±(3%URL+2.25%span)	N/A
9600056	1154DH5RB	0520269	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
9600056	1154HH6RB	0520284	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
9600056	1154DH8RBN0059	0520128	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+1.75%span)	±(2%URL+1.75%span)
9600056	1154SH9RBN0105	0520106	21-Mar-01	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9600056	1154DH8RBN0059	0519472	25-Sep-00	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+1.5%span)	±(2%URL+1.5%span)
9600056	1154DH8RBN0059	0520130	21-Mar-01	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+1.5%span)	±(2%URL+1.5%span)
9600056	1154DH4RB	0520308	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9600056	1154HH6RB	0519409	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9600056	1154HH6RB	0519414	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9600056	1154DH5RB	0519444	25-Sep-00	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9600056	1154HH6RB	0520283	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
9600056	1154SH9RBN0105	0519375	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9600056	1154SH9RBN0105	0519376	25-Sep-00	ULCHIN 5 & 6	586278	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
9600056	1154DH8RBN0059	0519471	25-Sep-00	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+1.25%span)	±(2%URL+1.25%span)
9600056	1154SH9RBN0060	0520109	21-Mar-01	ULCHIN 5 & 6	586278	±(3%URL+1.25%span)	±(3%URL+1.25%span)	N/A
9600056	1154DH8RBN0059	0519469	25-Sep-00	ULCHIN 5 & 6	586278	±(1.5%URL+1%span)	±(1.5%URL+1.25%span)	±(2%URL+1.25%span)
9600056	1154DH4RB	0520309	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
9600056	1154SH9RBN0060	0520108	21-Mar-01	ULCHIN 5 & 6	586278	±(3%URL+1%span)	±(3%URL+1.25%span)	N/A
9600056	1154HH6RB	0520279	21-Mar-01	ULCHIN 5 & 6	586278	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154SH9RBN0105	0534958	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+3.25%span)	N/A
4500110224	1154SH9RBN0060	0534209	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(3%URL+1%span)	±(3%URL+6.5%span)	N/A
4500110224	1154SH9RBN0060	0534208	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(3%URL+1%span)	±(3%URL+6.25%span)	N/A
4500110224	1154SH9RBN0060	0530768	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(3%URL+1%span)	±(3%URL+6%span)	N/A
4500110224	1154SH9RBN0060	0533665	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(3%URL+1%span)	±(3%URL+6%span)	N/A
4500110224	1154HH6RB	0533970	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+5%span)	±(2%URL+4%span)
4500110224	1154SH9RBN0060	0533666	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(3%URL+1%span)	±(3%URL+5.25%span)	N/A
4500110224	1154SH9RBN0105	0533213	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+3%span)	N/A
4500110224	1154SH9RBN0060	0530767	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(3%URL+1%span)	±(3%URL+4.5%span)	N/A
4500110224	1154DH8RBN0059	0530345	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1.5%URL+1%span)	±(1.5%URL+4%span)	±(2%URL+4%span)
4500110224	1154HH6RB	0534987	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
4500110224	1154HH6RB	0534985	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
4500110224	1154HH6RB	0534989	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
4500110224	1154HH6RB	0533965	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
4500110224	1154DH8RBN0059	0533608	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+3.75%span)	±(2%URL+3.75%span)
4500110224	1154DH8RBN0059	0534994	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+3.75%span)	±(2%URL+3.75%span)
4500110224	1154HH6RB	0534983	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
4500110224	1154DH5RB	0535025	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+3.75%span)	±(2%URL+2.75%span)
4500110224	1154HH6RB	0533967	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
4500110224	1154HH6RB	0533969	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
4500110224	1154DH5RB	0533979	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)

4500110224	1154SH9RBNO105	0531389	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500110224	1154SH9RBNO105	0533606	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500110224	1154DH4RB	0533930	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
4500110224	1154DH5RB	0533977	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154HH6RB	0530667	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154HH6RB	0530673	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154SH9RBNO105	0534955	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500110224	1154SH9RBNO105	0534957	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500110224	1154DH5RB	0535036	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154HH5RB	0533591	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154DH5RB	0535027	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154HH5RB	0535312	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500110224	1154SH9RBNO105	0531387	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154SH9RBNO105	0533296	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154SH9RBNO105	0533949	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154HH6RB	0533971	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
4500110224	1154SH9RBNO105	533300	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154SH9RBNO105	0533882	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154DH8RBNO059	0533607	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
4500110224	1154DH8RBNO059	0534993	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
4500110224	1154SH9RBNO105	0534921	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154SH9RBNO105	0534924	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154SH9RBNO105	0534956	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500110224	1154DH8RBNO059	0530343	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1.5%URL+1%span)	±(1.5%URL+1.75%span)	±(2%URL+1.75%span)
4500110224	1154HH6RB	0533661	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154HH6RB	0534986	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154HH6RB	0533972	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154DH8RBNO059	0533609	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+1.75%span)	±(2%URL+1.75%span)
4500110224	1154DH8RBNO059	0533613	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+1.75%span)	±(2%URL+1.75%span)
4500110224	1154HH6RB	0533657	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154DH5RB	0533678	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154DH5RB	0533984	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154DH5RB	0535030	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500110224	1154DH4RB	0535475	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154SH9RBNO105	0531388	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBNO105	0533299	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBNO105	0533946	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBNO105	0534940	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154DH4RB	0533581	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154SH9RBNO060	0533593	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(3%URL+1%span)	±(3%URL+1.75%span)	N/A
4500110224	1154SH9RBNO105	0533307	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBNO105	0533309	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBNO105	0531395	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A

4500110224	1154SH9RBN0105	0533604	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154DH4RB	0533577	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154DH4RB	0533929	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154DH4RB	0533934	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154HH6RB	0533663	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH5RB	0530683	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH5RB	0533677	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH5RB	0533981	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH8RBN0059	0534991	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1.5%URL+1%span)	±(1.5%URL+1.5%span)	±(2%URL+1.5%span)
4500110224	1154DH5RB	0535026	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH5RB	0535028	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH5RB	0535032	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH5RB	0535033	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154DH4RB	0535470	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154DH4RB	0535474	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154DH4RB	0533583	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154DH5RB	0530674	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154SH9RBN0105	0534999	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154DH5RB	0530680	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500110224	1154SH9RBN0105	0531379	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBN0105	0531382	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBN0105	0533587	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBN0105	0534939	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154HH5RB	0530686	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154SH9RBN0105	0533216	24-Apr-07	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBN0105	0533586	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154DH4RB	0535473	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500110224	1154SH9RBN0105	0531397	26-Apr-06	SHIN KORI/SHIN WOLSONG 1 & 2	1494839	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154SH9RBN0105	0533945	23-Mar-07	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500110224	1154DH4RB	0535477	15-Apr-08	SHIN KORI/SHIN WOLSONG 1 & 2	1563340	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)
4500212945	1154HH6RB	0533941	19-Jan-07	UNSPECIFIED	1803901	±(1%URL+1%span)	±(1%URL+5.25%span)	±(2%URL+4.25%span)
4500294551	1154HH6RB	0540858	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+5.25%span)	±(2%URL+4.25%span)
4500294551	1154HH6RB	0540843	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+4%span)	±(2%URL+3%span)
4500294551	1154SH9RBN0105	0540686	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+2.25%span)	N/A
4500294551	1154DH5RB	0540857	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+3.5%span)	±(2%URL+2.5%span)
4500294551	1154HH6RB	0540844	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+3.25%span)	±(2%URL+2.25%span)
4500294551	1154SH9RBN0050	0540375	2-Feb-11	SHIN KORI 3	2300433	±(3%URL+1%span)	±(3%URL+3.25%span)	N/A
4500294551	1154HH6RB	0540860	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
4500294551	1154SH9RBN0105	0540687	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
4500294551	1154SH9RBN0105	0540395	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+1.75%span)	N/A
4500294551	1154SH9RBN0060	0540376	2-Feb-11	SHIN KORI 3	2300433	±(3%URL+1%span)	±(3%URL+3%span)	N/A
4500294551	1154DH5RB	0540703	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
4500294551	1154DH5RB	0540635	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)

4500294551	1154HH5RB	0540707	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
4500294551	1154DH5RB	0540855	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
4500294551	1154DH5RB	0540701	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
4500294551	1154HH6RB	0540859	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154DH5RB	0540628	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
4500294551	1154DH5RB	0540508	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154HH6RB	0540861	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154DH5RB	0540629	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154DH5RB	0540631	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154DH5RB	0540633	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154HH5RB	0540706	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500294551	1154DH5RB	0540704	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500294551	1154SH9RBNO105	0540552	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500294551	1154SH9RBNO105	0540553	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500294551	1154DH5RB	0540856	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500294551	1154HH6RB	0540842	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
4500294551	1154DH5RB	0540509	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500294551	1154DH8RBNO059	0540380	2-Feb-11	SHIN KORI 3	2300433	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
4500294551	1154SH9RBNO105	0540688	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A
4500294551	1154DH8RBNO059	0540377	2-Feb-11	SHIN KORI 3	2300433	±(1.5%URL+1%span)	±(1.5%URL+2%span)	±(2%URL+2%span)
4500294551	1154DH5RB	0540854	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2.25%span)	±(2%URL+1.25%span)
4500294551	1154DH5RB	0540632	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+2%span)	±(2%URL+1%span)
4500294551	1154SH9RBNO105	0540689	2-Feb-11	SHIN KORI 3	2300433	±(2%URL+0.5%span)	±(2%URL+1%span)	N/A
4500294551	1154DH5RB	0540634	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500294551	1154HH5RB	0540705	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+1.75%span)	±(2%URL+0.75%span)
4500294551	1154DH5RB	0540507	2-Feb-11	SHIN KORI 3	2300433	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500385592	1154HH5RB	0543715	17-Jun-11	UNSPECIFIED	3065873	±(1%URL+1%span)	±(1%URL+2.75%span)	±(2%URL+1.75%span)
4500389398	1154DH8RBNO059	0544261	28-Sep-11	SHIN KORI 1 & 2	3085973	±(1.5%URL+1%span)	±(1.5%URL+4.5%span)	±(2%URL+4.5%span)
4500389398	1154DH8RBNO059	0544270	28-Sep-11	SHIN WOLSONG 1 & 2	3090141	±(1.5%URL+1%span)	±(1.5%URL+3.25%span)	±(2%URL+3.25%span)
4500389398	1154DH5RB	0544306	28-Sep-11	SHIN KORI 1 & 2	3085973	±(1%URL+1%span)	±(1%URL+3%span)	±(2%URL+2%span)
4500389398	1154HH6RB	0544324	28-Sep-11	SHIN KORI 1 & 2	3085973	±(1%URL+1%span)	±(1%URL+2.5%span)	±(2%URL+1.5%span)
4500389398	1154SH9RBNO105	0544680	28-Sep-11	SHIN WOLSONG 1 & 2	3090141	±(2%URL+0.5%span)	±(2%URL+0.75%span)	N/A
4500389398	1154DH5RB	0544305	28-Sep-11	SHIN WOLSONG 1 & 2	3090141	±(1%URL+1%span)	±(1%URL+1.5%span)	±(2%URL+0.5%span)
4500389398	1154DH4RB	0544281	28-Sep-11	SHIN KORI 1 & 2	3085973	±(1%URL+1%span)	±(1%URL+1.25%span)	±(2%URL+0.25%span)

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

APPENDIX A: 10 CFR PART 21 NOTIFICATION - 02 MARCH 2012

WOLF CREEK NUCLEAR OPERATING CORP

PURCHASE ORDER NUMBER	MODEL NUMBER	SERIAL NUMBER	SHIP DATE	SITE	RNII SALES ORDER	ORIGINAL SPECIFICATION	REVISED SPECIFICATION	REVISED SPECIFICATION FOR NON ZERO BASED CALIBRATIONS*
0710983/2	1154SH9RA	0520706	14-Mar-01	WOLF CREEK NUCLEAR	799823	±(2%URL+0.5%span)	±(2%URL+1.25%span)	N/A

*REFER TO ROSEMOUNT NUCLEAR INSTRUMENTS, INC. PART 21 NOTIFICATION DATED FEBRUARY 23, 2012.

Appendix B: Part 21 Notification dated February 23, 2012

ROSEMOUNT NUCLEAR
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ROSEMOUNT[®]

Nuclear

Rosemount Nuclear Instruments, Inc.
8200 Market Boulevard
Chanhassen, MN 55317 USA

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Fax 1 (952) 949-5201
www.RosemountNuclear.com

23 February 2012

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

Re: Notification under 10 CFR Part 21 on certain Rosemount Model 1154 Series H Pressure Transmitters with nonzero based calibrations

Pursuant to 10 CFR Part 21, section 21.21(b), Rosemount Nuclear Instruments, Inc. (RNII) is writing to inform you that certain Model 1154 Series H pressure transmitters may not perform within the published steam pressure/temperature accuracy specification.

Rosemount Nuclear Instruments, Inc. does not have complete information relating to specific plant applications and therefore cannot determine the potential effects of the condition on plant operation.

The potentially affected Model 1154 Series H pressure transmitters were shipped from RNII beginning in 1988. Model 1154 pressure transmitters (versus Model 1154 Series H) are not affected by this notification.

1.0 Name and address of the individual providing the information:

Mr. Marc D. Bumgarner
Vice President & General Manager
Rosemount Nuclear Instruments, Inc.
8200 Market Boulevard
Chanhassen, MN 55317

2.0 Identification of items supplied:

All Model 1154 Series H range code 4-8 pressure transmitters shipped since the initial release in 1988 are potentially affected. Model 1154 Series H range code 9 pressure transmitters are not affected, nor are Model 1154 (versus Model 1154 Series H) transmitters.

More detailed information can be found in the enclosed appendices.

- Appendix A lists 1154 model code combinations
- Appendix B lists N-options Specials with Specific Steam Pressure/Temperature Accuracy Specifications
- Appendix C lists U.S. domestic customers to which Rosemount Nuclear Instruments, Inc. has shipped one or more 1154 Series H range code 4-8 pressure transmitters

3.0 Identification of Items supplied:

Rosemount Nuclear Instruments, Inc.
8200 Market Boulevard
Chanhassen, MN 55317

4.0 Nature of the failure and potential safety hazard:

During the course of qualification testing to replace certain diodes identified for obsolescence, RNII has determined that Model 1154 Series H range code 4-8 pressure transmitters with a significantly elevated or suppressed 4 mA point may not meet the published steam pressure/temperature accuracy specification.

The out of tolerance condition observed during steam pressure/temperature qualification testing is not related to the replacement diode changes. It is an inherent performance characteristic related to large zero elevation or suppression.

The steam pressure/temperature accuracy specification will be revised to account for nonzero based calibrations with a significantly elevated or suppressed 4 mA point.

Currently, the Model 1154 Series H steam pressure/temperature specification establishes an expected accuracy as follows:

Accuracy within \pm (1.0% of upper range limit + 1.0% of span) for range codes 4-8; \pm (2.0% of upper range limit + 0.5% of span) for range code 9 during and after sequential exposure to steam at the following temperatures and pressures, concurrent with chemical spray for the first 24 hours.

420°F (215.6°C), 85 psig for 3 minutes
350°F (176.6°C), 85 psig for 7 minutes
320°F (160°C), 85 psig for 8 hours
265°F (129.4°C), 85 psig for 56 hours

The Model 1154 Series H steam pressure/temperature accuracy specification will be revised to envelop the observed steam pressure/temperature qualification test data as follows:

Accuracy within \pm (1.0% of upper range limit + 1.0% of span)* for range codes 4-8; \pm (2.0% of upper range limit + 0.5% of span) for range code 9 during and after sequential exposure to steam at the following temperatures and pressures, concurrent with chemical spray for the first 24 hours.

420°F (215.6°C), 85 psig for 3 minutes
350°F (176.6°C), 85 psig for 7 minutes
320°F (160°C), 85 psig for 8 hours
265°F (129.4°C), 85 psig for 56 hours

* For range codes 4-8, if pressure at the 4mA point (applied to either the high or low side of the transmitter) is greater than 50% of the upper range limit, the accuracy specification is \pm 2% of upper range limit.

This revised specification supersedes the published steam pressure/temperature accuracy specification for all Model 1154 Series H pressure transmitters affected by this notification.

The 1154 Series H range code 9 pressure transmitters have a steam pressure/temperature accuracy specification that already envelopes the observed steam pressure/temperature qualification test data and are not affected by this notification.

Model 1154 Series H pressure transmitters ordered with N-option specials which include specific steam pressure/temperature accuracy specifications may also be affected. See Appendix B for details.

On February 16, 2012, it was concluded that a substantial safety hazard may exist. Rosemount Nuclear Instruments, Inc. does not have sufficient information to determine the potential safety impact in plant applications. As a result, a notification about the potential substantial safety hazard is being made in accordance with 10 CFR Part 21 to customers who purchased affected 1154 Series H pressure transmitters.

5.0 The corrective action which is taken, the name of the individual or organization responsible for that action, and the length of time taken to complete that action:

- (a) Update Model 1154 Series H Qualification Report D8700096 to include the revised steam pressure/temperature specification for pressure transmitters impacted by this notification as noted in Section 4.0.
- (b) Update the Model 1154 Series H Product Data Sheet 00813-0100-4631 and Product Manual 00809-0100-4631 to include the revised steam pressure/temperature specification for pressure transmitters impacted by this notification as noted in Section 4.0.
- (c) Update the N0059 Specification Drawing 01154-2704 to include the revised steam pressure/temperature specification for pressure transmitters impacted by this notification as noted in Appendix B.

Completion: March 2012

Mr. Marc Bumgarner, VP&GM of Rosemount Nuclear Instruments, Inc. is responsible for any further action related to this issue.

6.0 Any advice related to the potential failure of the item:

RNII recommends that users review the application where 1154 Series H range code 4-8 pressure transmitters are used to determine if there are safety considerations related to the revised steam pressure/temperature specification.

Rosemount Nuclear Instruments, Inc. is committed to the nuclear industry and remains dedicated to the supply of high quality products to our customers. If you have any questions, or require additional information related to this issue, please contact: Mike Dougherty (208) 865-1112 or Tracy Kaluzniak (952) 949-7159.

Sincerely,

A handwritten signature in black ink that reads "MD Bumgarner" followed by a horizontal line.

Marc D. Bumgarner
Vice President & General Manager
Rosemount Nuclear Instruments, Inc.

Enc.: Appendix A: Model Code Combinations

Appendix B: N-option Specials with Specific Steam Pressure/Temperature Accuracy Specifications

Appendix C: List of Customers

Appendix A: Model Code Combinations

Potentially affected model codes begin with the following:

Base Model	Description
1154DH4...	1154 Series H Differential Pressure 2000 psig Static Pressure Rating
1154DH5...	1154 Series H Differential Pressure 2000 psig Static Pressure Rating
1154DH6...	1154 Series H Differential Pressure 2000 psig Static Pressure Rating
1154DH7...	1154 Series H Differential Pressure 2000 psig Static Pressure Rating
1154DH7...	1154 Series H Differential Pressure 2000 psig Static Pressure Rating
1154DH8...	1154 Series H Differential Pressure 2000 psig Static Pressure Rating
1154HH4...	1154 Series H Differential Pressure 3000 psig Static Pressure Rating
1154HH5...	1154 Series H Differential Pressure 3000 psig Static Pressure Rating
1154HH6...	1154 Series H Differential Pressure 3000 psig Static Pressure Rating
1154HH7...	1154 Series H Differential Pressure 3000 psig Static Pressure Rating
1154HH7...	1154 Series H Differential Pressure 3000 psig Static Pressure Rating
1154HH8...	1154 Series H Differential Pressure 3000 psig Static Pressure Rating

Unaffected model codes begin with the following:

Base Model	Notes
1154SH9...	1154 Series H Sealed Reference Pressure
1154DP...	1154 Differential Pressure 2000 psig Static Pressure Rating
1154HP...	1154 Differential Pressure 3000 psig Static Pressure Rating
1154GP...	1154 Gage Pressure

Appendix B: N-option Specials with Specific Steam Pressure/Temperature Accuracy Specifications

N-option (RNII drawing reference)	Description	Steam Pressure/Temperature Accuracy Specification	Notes
N0059 (01154-2704)	Defines the use of a Model 1154DH8RB with a sealed reference on the low side.	$\pm(1.5\%URL+1\%span)$	is affected by this notification. The revised steam pressure/temperature accuracy specification is $\pm(2\% URL + 1\% span)$ when the 4 mA point is greater than 50% of URL.
N0026 (01153-2725)	Defines the use of an 1154 Series H range code 4 pressure transmitter calibrated to a maximum working pressure of 210 in. H ₂ O.	$\pm 5.50 \text{ inH}_2\text{O}$	Not affected by this notification
N0079 (01153-2758)	Variant of the N0026 option with a vent/drain valve kit consisting of two threaded SST valve seats and two SST valve stems.		
N0087 (01154-2712)	Variant of the N0026 option with the electronic housing rotated 180 degrees.		
N0089 (01154-2714)	Variant of the N0026 option with the electronic housing rotated 90 degrees in the clockwise direction.		
N0060 (01154-2705)	Defines the use of a range code 9 module for a calibration range of 0 – 4000 psi.	$\pm(3\%URL+1\%span)$	Not affected by this notification
N0110 (01154-2725)	Defines the use of a range code 9 module for a calibration range of 0 – 4000 psi with adjustable damping.	$\pm(3\%URL+1\%span)$	Not affected by this notification

Appendix C: List of Customers

Domestic U.S. Customers
ALABAMA POWER CO
AMERICAN ELECTRIC POWER CO INC
ARIZONA PUBLIC SERVICE CO/RINNACLE WEST CAPITAL
BECHTEL POWER CORP
CONSTELLATION ENERGY GROUP INC
DOMINION NUCLEAR CONNETICUT INC/DOMINION GENERATION
DUKE ENERGY CORP
ECFS MCS
EDISON MATERIAL SUPPLY LLC
ELECTRO MECHANICS
ENERGY CORP
EXELON GENERATION CO LLC
FLORIDA POWER AND LIGHT CO
FPL ENERGY LLC
GEORGIA POWER CO
NORTHERN STATES POWER - MINNESOTA DBA XCEL ENERGY
PACIFIC GAS AND ELECTRIC COMPANY
PROGRESS ENERGY FLORIDA INC
PROGRESS ENERGY CAROLINAS INC
PSEG NUCLEAR LLC
SOUTH CAROLINA ELECTRIC & GAS
SOUTHERN CALIFORNIA EDISON CO
SOUTHERN NUCLEAR OPERATING COMPANY
STP NUCLEAR OPERATING CO
TENNESSEE VALLEY AUTHORITY
TXU/LUMINANT GENERATION CO LLC
WESTINGHOUSE ELECTRIC CO LLC