



D.M. JAMIL
Vice President

Catawba Nuclear Station
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July 18, 2006

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Subject: Duke Power Company LLC d/b/a Duke Energy
Carolinas, LLC (Duke)
Catawba Nuclear Station, Unit 2
Docket Number 50-414
Steam Generator Outage Summary Inservice
Inspection Report for End of Cycle 14
Refueling Outage

Please find attached the subject report which provides the results of the steam generator tube inservice inspection effort associated with the subject outage.

There are no regulatory commitments contained in this letter or its attachment.

If you have any questions concerning this material, please call L.J. Rudy at (803) 831-3084.

Very truly yours,

A handwritten signature in black ink, appearing to be 'D.M. Jamil', written over a horizontal line.

D.M. Jamil

LJR/s

Attachment

A047

Document Control Desk

Page 2

July 18, 2006

xc (with attachment):

W.D. Travers, Regional Administrator
U.S. Nuclear Regulatory Commission, Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, GA 30303

E.F. Guthrie, Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Catawba Nuclear Station

J.F. Stang, Jr., Senior Project Manager (addressee only)
U.S. Nuclear Regulatory Commission
Mail Stop 8-H4A
Washington, D.C. 20555-0001

Steam Generator Outage Summary Report

Catawba Unit 2 2006 Outage EOC 14

Location: 4800 Concord Road, York South Carolina 29745

NRC Docket No. 50-414

National Board No. 173

Commercial Service Date: August 19, 1986

Owner: Duke Energy Corporation
526 South Church St.
Charlotte, N.C. 28201-1006

Revision 0

Prepared By: *C. B. Cauter*

Date: *7-13-2006*

Reviewed By: *D. B. Mayo*

Date: *7/13/2006*

Approved By: *P. W. Downing*

Date: *7/13/06*

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2

Hartford Steam Boiler
Inspection and Insurance
Co. (AIA)

Electronic

Steam Generator
Desktop

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS**As required by the Provisions of the ASME Code Rules**

1. Owner: Duke Energy Corporation, 526 S. Church St., Charlotte, NC 28201-1006
(Name and Address of Owner)
2. Plant: Catawba Nuclear Station, 4800 Concord Road, York, S. C. 29745
(Name and Address of Plant)
3. Plant Unit: 2
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: August 19, 1986
6. National Board Number for Unit 173
7. Components Inspected:

| <u>Component</u> | <u>Manufacturer</u> | <u>Manufacturer Serial No.</u> | <u>State or Province No.</u> | <u>National Board No.</u> |
|--------------------|---------------------|------------------------------------|----------------------------------|-------------------------------|
| Steam Generator 2A | Westinghouse | 1923 | N/A | 4 |
| Steam Generator 2B | Westinghouse | 1922 | N/A | 3 |
| Steam Generator 2C | Westinghouse | 1921 | N/A | 2 |
| Steam Generator 2D | Westinghouse | 1924 | N/A | 5 |

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates 10/24/2004 to 04/24/2006
9. Inspection Period Identification: #3
10. Inspection Interval Identification: #2
11. Applicable Edition of Section XI 1989 Addenda None
12. Date/Revision of Inspection Plan: Per Technical Specification (5.5.9)
13. Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.
14. Abstract of Results of Examination and Tests.
15. Abstract of Corrective Measures.

We certify that a) the statements made in this report are correct b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date July 13 20 06 Signed Duke Energy Corp. By P.W. Downing
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of NC employed by *The Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owners' Report during the period 03/27/2006 to 07/13/2006, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in the Owners' Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, test, and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Robert McGill
Inspector's Signature

Commissions NC 978
National Board, State, Province, and Endorsements

Date 7.13 20 06

* The Hartford Steam Boiler Inspection & Insurance Company of Connecticut (HSB C'I)
200 Ashford Center North
Suite 205
Atlanta, GA. 30338

Steam Generator Tubes Inspected Catawba Unit 2 EOC14

The following describes the scope of the Inspection performed at Catawba Unit 2 for EOC-14 in March 2006:

A bobbin coil eddy current inspection was performed at Catawba Unit 2 EOC-14 in March 2006. The tubes selected for the bobbin inspection included tubes with previous indications, tubes on the periphery of the bundle two rows deep, tubes surrounding plugged tubes and a minimum sample of 20 % of remaining tubes including all tubes not inspected with bobbin since EOC -10. During the outage additional tubes were added to the inspection plan to bound possible loose parts identified by eddy current and visual inspection. The total tubes inspected by bobbin per steam generator can be found in Table 1.

The tubesheet region was inspected with the array probe. The tubes selected for the inspection included a 20 % random sample, all periphery tubes, all of the historical overexpansions and 20 % of the newly identified overexpansions. Relative to the latter, there was a new criterion developed to more consistently identify overexpansions. The tubesheet inspection was performed from two inches above the top of tubesheet through the tube end. The total number of tubes inspected by the array probe in the tubesheet region per steam generator can be found in Table 1.

Small radius u bends were also inspected by the array. The tubes selected include a 20 % sample of rows one, two and ten. The tubes selected by the bobbin plan in row 3 and 4 were also inspected with the array. Row ten is the first row that was not stressed relieved after bending and was sampled for monitoring purposes. The total number of tubes inspected by the array in the u-bends per steam generator can be found in Table 1.

Bobbin coil indications of special interest were also inspected by the array probe. The indication selected for array special interest were degradation identified during the inspection (I-codes, PLP, and permeability variations), 50% of previously identified dents greater than two volts, new dents and new wear. The number of tubes inspected for special interest per steam generator can be found in Table 1.

Preheater expansions were also inspected by the array probe. The tubes selected for the inspection include 20 % the tubes expanded at the 17C and 18C tube support plate. The total number of tubes inspected by the array in this region per steam generator can be found in Table 1.

Tubes were inspected at baffle 18 C by the array probe. This region acts as a loose parts collector since it is at the bottom of the preheater. The total number of tubes

inspected by the array probe in this region per steam generator can be found in Table 1.

Rolled plugs were inspected with a rotating coil probe on the hot leg. Twenty percent of the rolled plugs installed on the hot leg were inspected. The total number of tubes with rolled plug examinations per steam generator can be found in Table 1.

All plugs were inspected visually on both the hot and cold leg sides. The total number of plugged tubes visually inspected per steam generator can be found in Table 1.

There are 4578 tubes in each steam generator.

Table 1
Tubes Inspected by Steam Generator
By Inspection Plan

| Scope | SG A | SG B | SG C | SG D |
|---|-------------|-------------|-------------|-------------|
| Bobbin | 2508 | 2499 | 2376 | 2601 |
| Tubesheet (array) | 1508 | 1159 | 1091 | 1265 |
| Small radius u bends (array) | 186 | 204 | 177 | 197 |
| Preheater expansions at 17 C and 18C (array) | 28 | 28 | 28 | 28 |
| 18 C baffle region (array) | 97 | 134 | 190 | 130 |
| Special Interest of bobbin (array) | 560 | 359 | 362 | 521 |
| Plug (rpc) | 11 | 7 | 7 | 8 |
| Plug (visual) | 68 | 90 | 53 | 85 |

**Catawba Nuclear Station
Steam Generator Tubes Plugged
Refueling Outage EOC14, April 2006**

Steam Generator 2A Tubes Plugged = 1

| Tube Row | Tube Column | Repair Method | Reason for plugging |
|-----------------|--------------------|------------------------------------|--|
| 17 | 82 | Cold leg stabilized & mech plugged | Preventative measure for an over-roll condition at top of tubesheet. |

Steam Generator 2B Tubes Plugged = 9

| Tube Row | Tube Column | Repair Method | Reason for plugging |
|-----------------|--------------------|--|-----------------------------|
| 15 | 27 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 15 | 29 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 16 | 27 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 16 | 28 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 16 | 30 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 16 | 31 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 17 | 27 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 18 | 28 | Mech plugged & Hot leg stabilized | Loose Part, 1st TSP |
| 30 | 12 | Mech plugged & Cold Leg tube Hard Rolled | Cold Leg tube not expanded. |

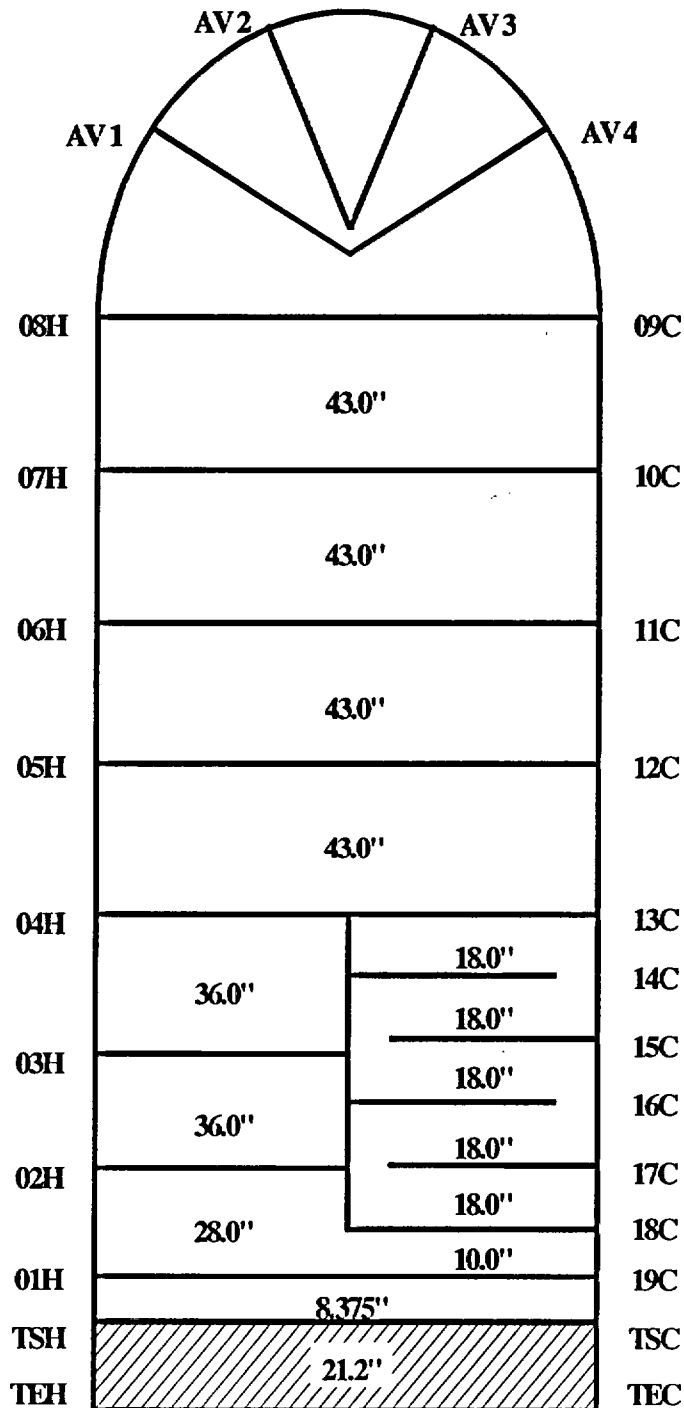
Steam Generator 2C Tubes Plugged = 2

| Tube Row | Tube Column | Repair Method | Reason for plugging |
|-----------------|--------------------|------------------------------------|---|
| 7 | 109 | Mech plugged & hot leg stabilized | Loose Part, 4th TSP |
| 11 | 93 | Mech plugged & Cold leg stabilized | Preventative measure for an over-roll condition at top of tubesheet |
| | | | |

Steam Generator 2D Tubes Plugged = 2

| Tube Row | Tube Column | Repair Method | Reason for plugging |
|-----------------|--------------------|------------------------------------|---|
| 1 | 57 | Mech plugged & hot leg stabilized | Preventative measure for tube expansion geometry at top of tubesheet. |
| 41 | 60 | Mech plugged & Cold leg stabilized | Preventative measure for an over-roll condition at top of tubesheet |

Landmark Sketch to assist in locating eddy current information.



D5 STEAM GENERATOR SPECIFICATIONS

TUBE INFORMATION:

NO. OF TUBES = 4578
 MATERIAL = Inconel 600
 NOMINAL DIA. = 0.750"
 NOMINAL WALL = 0.043"
 ROW 1 RADIUS = 2.250"
 STRAIGHT LENGTH = 305.0"
 TUBE PITCH = 1.0625"

TUBE SUPPORT INFORMATION:

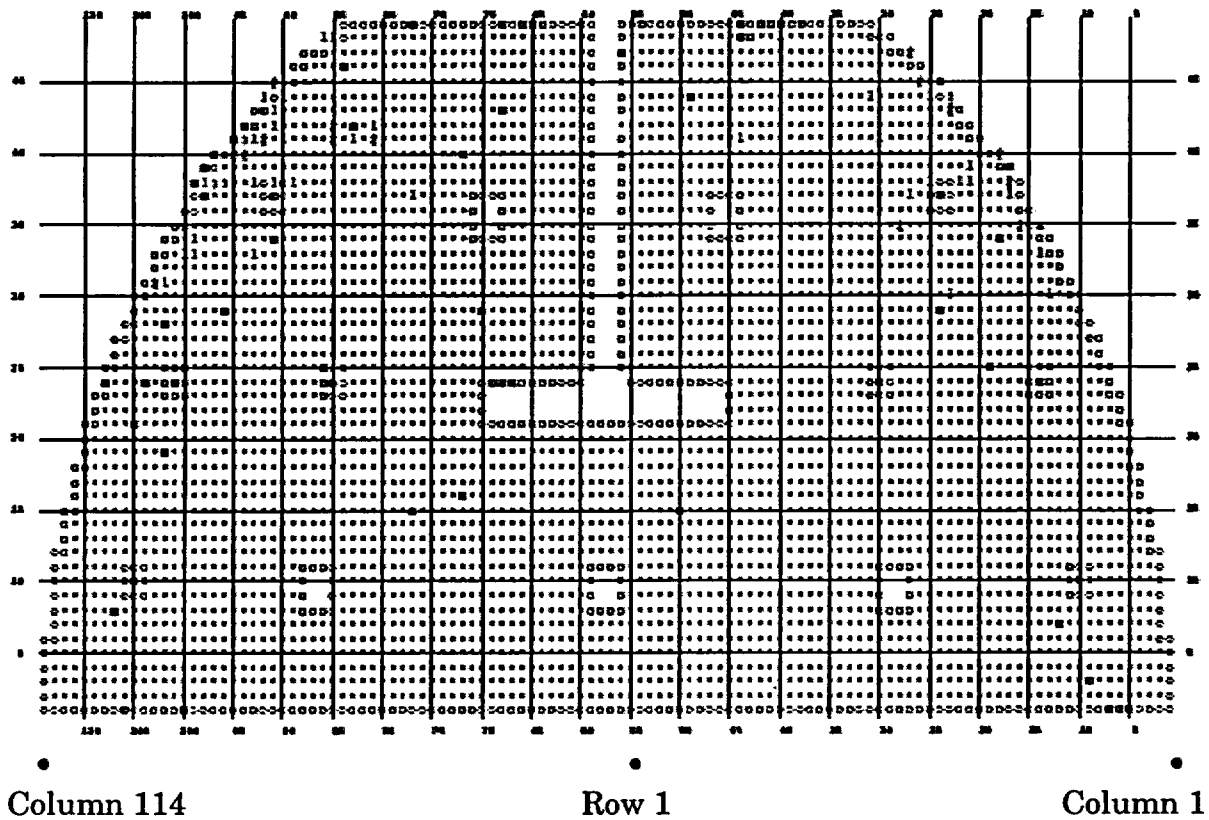
TYPES = Drilled / Quatrafoil
 MATERIAL=405 Stainless Steel
 THICKNESS = 0.75"/ 1.12"

AVB INFORMATION:

MATERIAL = Chrome Plated Inconel
 THICKNESS = 0.296"

NOTE: Dimensions are to the centerline of the tube support structures.

Tube Sheet Layout:



Attachments:

- A SG 2A Eddy Current Indications and Anomalies
- B SG 2B Eddy Current Indications and Anomalies
- C SG 2C Eddy Current Indications and Anomalies
- D SG 2D Eddy Current Indications and Anomalies

Attachment A
SG 2A Eddy Current Indications and Anomalies

Indication Codes

SG – A

Catawba Unit 2 D5 EOC14

Ind Type Description

SAI Indication Single Axial Indication

TWD Through Wall

WAR Wear

Inspection techniques utilized:

Bobbin

These codes are used in the following eddy current report for steam generator 2A.

Note: The reported tube indications are for those that were determined to be active in that they are service related. All original baseline indications are not reported here.

Active degradation for Steam Generator A

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| A | 7 | 23 | 1.59 | 65 | 170 | SAI | | TEH +0.00 | | |
| | 30 | 13 | 1.45 | 0 | P4 | TWD | 19 | AV3 0.09 | WAR | |
| | 30 | 23 | 0.89 | 0 | P4 | TWD | 12 | AV2 0.15 | WAR | |
| | 31 | 102 | 0.78 | 0 | P4 | TWD | 10 | AV4 -0.05 | WAR | |
| | | | 0.62 | 0 | P4 | TWD | 11 | AV2 -0.05 | WAR | |
| | 31 | 103 | 2.07 | 0 | P4 | TWD | 24 | AV2 -0.09 | WAR | |
| | 32 | 15 | 0.82 | 0 | P4 | TWD | 13 | AV2 0.03 | WAR | |
| | 33 | 14 | 0.41 | 0 | P4 | TWD | 6 | AV4 0.09 | WAR | |
| | 33 | 93 | 1.03 | 0 | P4 | TWD | 16 | AV2 0.05 | WAR | |
| | 33 | 99 | 0.53 | 0 | P4 | TWD | 10 | AV2 -0.08 | WAR | |
| | 33 | 100 | 1.33 | 0 | P4 | TWD | 18 | AV3 0.00 | WAR | |
| | 34 | 99 | 0.81 | 0 | P4 | TWD | 13 | AV4 0.00 | WAR | |
| | | | 0.62 | 0 | P4 | TWD | 10 | AV3 0.00 | WAR | |
| | 35 | 16 | 1.65 | 0 | P4 | TWD | 21 | AV3 0.15 | WAR | |
| | | | 1.19 | 0 | P4 | TWD | 17 | AV2 0.15 | WAR | |
| | 35 | 28 | 1.85 | 0 | P4 | TWD | 23 | AV3 0.00 | WAR | |
| | 37 | 17 | 1.19 | 0 | P4 | TWD | 17 | AV3 0.12 | WAR | |
| | | | 0.69 | 0 | P4 | TWD | 11 | AV2 0.09 | WAR | |
| | 37 | 27 | 1.01 | 0 | P4 | TWD | 17 | AV2 -0.03 | WAR | |
| | 37 | 39 | 0.63 | 0 | P4 | TWD | 8 | AV2 0.19 | WAR | |
| | 37 | 77 | 1.18 | 0 | P4 | TWD | 17 | AV4 0.00 | WAR | |
| | | | 1.41 | 0 | P4 | TWD | 19 | AV3 0.07 | WAR | |
| | | | 1.54 | 0 | P4 | TWD | 20 | AV2 0.19 | WAR | |
| | 38 | 17 | 1.18 | 0 | P4 | TWD | 17 | AV4 0.09 | WAR | |
| | | | 1.37 | 0 | P4 | TWD | 18 | AV3 0.17 | WAR | |
| | | | 1.15 | 0 | P4 | TWD | 16 | AV1 0.03 | WAR | |
| | 38 | 21 | 1.31 | 0 | P4 | TWD | 18 | AV2 0.00 | WAR | |
| | 38 | 22 | 0.85 | 0 | P4 | TWD | 13 | AV3 -0.09 | WAR | |
| | | | 0.94 | 0 | P4 | TWD | 14 | AV2 -0.18 | WAR | |
| | 38 | 23 | 0.7 | 0 | P4 | TWD | 11 | AV2 0.08 | WAR | |
| | 38 | 25 | 0.9 | 0 | P4 | TWD | 14 | AV3 0.00 | WAR | |
| | 38 | 89 | 0.84 | 0 | P4 | TWD | 14 | AV3 -0.08 | WAR | |
| | | | 0.94 | 0 | P4 | TWD | 15 | AV2 0.08 | WAR | |
| | 38 | 91 | 0.87 | 0 | P4 | TWD | 14 | AV4 0.00 | WAR | |
| | | | 0.92 | 0 | P4 | TWD | 15 | AV2 0.00 | WAR | |
| | | | 0.41 | 0 | P4 | TWD | 9 | AV4 -0.05 | WAR | |
| | | | 0.9 | 0 | P4 | TWD | 16 | AV2 0.00 | WAR | |
| | 38 | 93 | 1.16 | 0 | P4 | TWD | 17 | AV2 -0.05 | WAR | |
| | 38 | 96 | 0.55 | 0 | P4 | TWD | 10 | AV4 -0.19 | WAR | |
| | | | 1.15 | 0 | P4 | TWD | 17 | AV3 0.00 | WAR | |
| | | | 2.8 | 0 | P4 | TWD | 28 | AV2 -0.24 | WAR | |
| | 38 | 97 | 1.18 | 0 | P4 | TWD | 17 | AV4 0.00 | WAR | |
| | | | 1.73 | 0 | P4 | TWD | 22 | AV3 -0.16 | WAR | |
| | | | 4.15 | 0 | P4 | TWD | 35 | AV2 0.00 | WAR | |
| | 38 | 98 | 0.73 | 0 | P4 | TWD | 12 | AV4 -0.08 | WAR | |
| | | | 0.99 | 0 | P4 | TWD | 15 | AV3 -0.05 | WAR | |
| | | | 1.19 | 0 | P4 | TWD | 17 | AV2 -0.16 | WAR | |
| | 39 | 21 | 0.71 | 0 | P4 | TWD | 10 | AV2 -0.03 | WAR | |

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| A | 40 | 18 | 3.08 | 0 | P4 | TWD | 30 | AV3 0.00 | WAR | |
| | 40 | 94 | 0.72 | 0 | P4 | TWD | 12 | AV4 0.00 | WAR | |
| | | | 2.11 | 0 | P4 | TWD | 25 | AV2 -0.03 | WAR | |
| | 40 | 95 | 1.33 | 0 | P4 | TWD | 18 | AV4 -0.03 | WAR | |
| | | | 1.76 | 0 | P4 | TWD | 22 | AV2 0.00 | WAR | |
| | 41 | 30 | 0.63 | 0 | P4 | TWD | 10 | AV2 0.03 | WAR | |
| | 41 | 44 | 0.74 | 0 | P4 | TWD | 11 | AV3 0.00 | WAR | |
| | | | 1.34 | 0 | P4 | TWD | 17 | AV2 0.06 | WAR | |
| | | | 1.48 | 0 | P4 | TWD | 18 | AV1 0.00 | WAR | |
| | 41 | 81 | 0.79 | 0 | P4 | TWD | 13 | AV4 0.00 | WAR | |
| | | | 1.47 | 0 | P4 | TWD | 20 | AV3 0.00 | WAR | |
| | | | 2.15 | 0 | P4 | TWD | 25 | AV2 0.00 | WAR | |
| | 41 | 83 | 1.09 | 0 | P4 | TWD | 16 | AV4 0.00 | WAR | |
| | | | 1.67 | 0 | P4 | TWD | 21 | AV3 0.00 | WAR | |
| | | | 1.47 | 0 | P4 | TWD | 20 | AV2 0.00 | WAR | |
| | 41 | 85 | 1.94 | 0 | P4 | TWD | 23 | AV3 0.00 | WAR | |
| | 41 | 90 | 0.96 | 0 | P4 | TWD | 15 | AV3 0.00 | WAR | |
| | 41 | 92 | 0.63 | 0 | P4 | TWD | 10 | AV4 -0.10 | WAR | |
| | | | 1.65 | 0 | P4 | TWD | 21 | AV3 0.00 | WAR | |
| | 41 | 93 | 0.66 | 0 | P4 | TWD | 12 | AV4 -0.05 | WAR | |
| | | | 0.99 | 0 | P4 | TWD | 15 | AV3 0.00 | WAR | |
| | 41 | 94 | 0.82 | 0 | P4 | TWD | 13 | AV4 -0.05 | WAR | |
| | | | 2.99 | 0 | P4 | TWD | 30 | AV3 0.03 | WAR | |
| | | | 1.67 | 0 | P4 | TWD | 21 | AV2 0.05 | WAR | |
| | 42 | 81 | 0.36 | 0 | P4 | TWD | 10 | AV4 0.12 | WAR | |
| | | | 0.82 | 0 | P4 | TWD | 16 | AV2 -0.25 | WAR | |
| | 42 | 85 | 1.06 | 0 | P4 | TWD | 19 | AV3 0.00 | WAR | |
| | | | 2.36 | 0 | P4 | TWD | 28 | AV2 0.00 | WAR | |
| | 42 | 91 | 1.02 | 0 | P4 | TWD | 16 | AV3 0.00 | WAR | |
| | 43 | 23 | 0.94 | 0 | P4 | TWD | 15 | AV2 0.12 | WAR | |
| | | | 0.73 | 0 | P4 | TWD | 10 | AV1 0.00 | WAR | |
| | 43 | 91 | 1.44 | 0 | P4 | TWD | 19 | AV4 0.00 | WAR | |
| | | | 1.07 | 0 | P4 | TWD | 16 | AV3 0.00 | WAR | |
| | | | 1.12 | 0 | P4 | TWD | 17 | AV2 0.00 | WAR | |
| | | | 0.63 | 0 | P4 | TWD | 11 | AV1 -0.00 | WAR | |
| | | | 1.32 | 0 | P4 | TWD | 20 | AV4 -0.05 | WAR | |
| | | | 0.94 | 0 | P4 | TWD | 16 | AV3 -0.03 | WAR | |
| | | | 0.99 | 0 | P4 | TWD | 17 | AV2 0.08 | WAR | |
| | | | 0.48 | 0 | P4 | TWD | 10 | AV1 0.05 | WAR | |
| | 44 | 23 | 1.4 | 0 | P4 | TWD | 19 | AV4 0.13 | WAR | |
| | | | 5.26 | 0 | P4 | TWD | 38 | AV3 0.00 | WAR | |
| | | | 2.06 | 0 | P4 | TWD | 24 | AV2 -0.03 | WAR | |
| | | | 1.34 | 0 | P4 | TWD | 17 | AV1 0.14 | WAR | |
| | 44 | 25 | 1.15 | 0 | P4 | TWD | 17 | AV3 0.09 | WAR | |
| | | | 1.18 | 0 | P4 | TWD | 17 | AV2 0.09 | WAR | |
| | 44 | 31 | 0.64 | 0 | P4 | TWD | 8 | AV2 0.12 | WAR | |
| | 44 | 90 | 0.63 | 0 | P4 | TWD | 10 | AV3 0.00 | WAR | |
| | 44 | 92 | 0.65 | 0 | P4 | TWD | 11 | AV4 0.00 | WAR | |
| | | | 1.1 | 0 | P4 | TWD | 16 | AV3 0.00 | WAR | |

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| A | 45 | 26 | 2.34 | 0 | P4 | TWD | 26 | AV3 0.12 | WAR | |
| | | | 0.9 | 0 | P4 | TWD | 13 | AV2 0.00 | WAR | |
| | 45 | 90 | 1.19 | 0 | P4 | TWD | 17 | AV3 0.00 | WAR | |
| | 45 | 91 | 1.9 | 0 | P4 | TWD | 23 | AV4 0.00 | WAR | |
| | | | 1.11 | 0 | P4 | TWD | 16 | AV3 -0.05 | WAR | |
| | | | 1.15 | 0 | P4 | TWD | 17 | AV2 -0.03 | WAR | |
| | 47 | 27 | 2.7 | 0 | P4 | TWD | 29 | AV3 -0.04 | WAR | |
| | | | 1.05 | 0 | P4 | TWD | 18 | AV2 -0.03 | WAR | |
| | 48 | 85 | 0.96 | 0 | P4 | TWD | 15 | AV4 0.00 | WAR | |
| | | | 0.7 | 0 | P4 | TWD | 12 | AV3 0.00 | WAR | |
| | 48 | 86 | 0.53 | 0 | P4 | TWD | 13 | AV4 0.00 | WAR | |
| | | | 0.51 | 0 | P4 | TWD | 12 | AV3 0.00 | WAR | |
| | 49 | 35 | 0.68 | 0 | P4 | TWD | 10 | AV1 0.07 | WAR | |
| | 49 | 70 | 0.67 | 0 | P4 | TWD | 12 | AV1 0.00 | WAR | |

Attachment B
SG 2B Eddy Current Indications and Anomalies

Indication Codes

SG - B

Catawba Unit 2 D5 EOC14

| Ind Type | Description |
|----------|-------------|
|----------|-------------|

| | |
|-----|--|
| CHG | Change in Indication |
| MAI | Indication Multiple Axial Indication |
| NEX | Anomaly No Expansion |
| NQI | Indication Non-Quantifiable Indication |
| OR | Data Quality |
| SAI | Indication Single Axial Indication |
| SCI | Indication Single Circumferential Indication |
| SVI | Indication Single Volumetric Indication |
| TWD | Through Wall |
| WAR | Wear |

These codes are used in the following eddy current report for steam generator 2B.

Note: The reported tube indications are for those that were determined to be active in that they are service related. All original baseline indications are not reported here.

Active degradation for Steam Generator B

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-------------------|---------------|---------------|
| B | 1 | 21 | 10.82 | 15 | 94 | SCI | | TEH +0.03 | | |
| | 1 | 42 | 7.68 | 28 | 70 | MAI | | TEH +0.09 | | |
| | 1 | 91 | 5.76 | 58 | 182 | SAI | | TEH +0.09 | | |
| | 2 | 32 | 1.67 | 24 | 158 | MAI | | TEH +0.12 | | |
| | 2 | 70 | 3.11 | 31 | 166 | SAI | | TEH +0.30 | | |
| | 2 | 82 | 3.44 | 17 | 26 | SAI | | TEH +0.03 | | |
| | 2 | 83 | 2.57 | 18 | 38 | SAI | | TEH +0.03 | | |
| | 3 | 21 | 9.81 | 24 | 162 | SAI | | TEH +0.06 | | |
| | 3 | 29 | 6.35 | 39 | 162 | SAI | | TEH +0.35 | | |
| | 3 | 55 | 4.56 | 129 | 170 | SAI | | TEH +0.04 | | |
| | 4 | 34 | 3.38 | 21 | 150 | SAI | | TEH +0.27 | | |
| | 5 | 31 | 2.45 | 17 | 38 | SAI | | TEH +0.04 | | |
| | 5 | 82 | 6.74 | 15 | 122 | SAI | | TEH +0.07 | | |
| | 6 | 81 | 1.41 | 42 | 26 | SAI | | TEH +0.24 | | |
| | 6 | 82 | 2.01 | 62 | 170 | SAI | | TEH +0.07 | | |
| | 9 | 76 | 8.22 | 9 | 38 | SAI | | TEH +0.09 TO+0.23 | | |
| | 10 | 81 | 3.29 | 28 | 162 | SAI | | TEH +0.06 | | |
| | 11 | 82 | 1.06 | 18 | 146 | SAI | | TEH +0.10 | | |
| | 12 | 82 | 1.06 | 25 | 122 | SAI | | TEH +0.06 | | |
| | 12 | 92 | 3.46 | 35 | 182 | SAI | | TEH +0.06 | | |
| | 14 | 81 | 1.21 | 18 | 58 | SAI | | TEH +0.24 | | |
| | 15 | 27 | 0.28 | 98 | 54 | SVI | | 01H +0.64 | | |
| | 15 | 29 | 0.88 | 145 | 134 | SVI | | 01H +0.51 | | |
| | 15 | 56 | 1.22 | 0 | P4 | TWD | 19 | AV4 0.24 | WAR | |
| | 16 | 27 | 1 | 107 | 58 | SVI | | 01H +0.59 | | |
| | | | 0.41 | 132 | 10 | SVI | | 01H +0.47 | | |
| | | | 0.79 | 115 | P1 | NQI | | 01H 0.59 | | CHG |
| | 16 | 28 | 0.47 | 122 | P1 | NQI | | 01H 0.40 | | |
| | | | 0.82 | 88 | 118 | SVI | | 01H +0.52 | | |
| | 16 | 30 | 0.33 | 110 | P1 | NQI | | 01H 0.49 | | |
| | | | 0.85 | 132 | 6 | SVI | | 01H +0.54 | | |
| | 16 | 31 | 0.28 | 86 | 158 | SVI | | 01H +0.64 | | |
| | 20 | 32 | 3.9 | 16 | 158 | SAI | | TEH +0.05 | | |
| | 24 | 63 | 3.29 | 15 | 70 | SAI | | TEH +0.10 | | |
| | 25 | 31 | 1.57 | 40 | 26 | SAI | | TEH +0.06 | | |
| | 27 | 60 | 1.71 | 0 | P4 | TWD | 22 | AV2 0.24 | WAR | |
| | 30 | 12 | 3.11 | 32 | 193 | NEX | | TEC 1.00 TO 21.20 | | |
| | 30 | 21 | 0.68 | 61 | 10 | SAI | | TEH +0.06 | | OR |
| | 30 | 104 | 0.75 | 0 | P4 | TWD | 13 | AV3 0.12 | WAR | |
| | | | 0.64 | 0 | P4 | TWD | 11 | AV1 -0.03 | WAR | |
| | 32 | 103 | 1.01 | 0 | P4 | TWD | 17 | AV4 0.08 | WAR | |
| | | | 0.85 | 0 | P4 | TWD | 15 | AV3 0.11 | WAR | |
| | | | 0.92 | 0 | P4 | TWD | 16 | AV2 0.19 | WAR | |
| | 36 | 98 | 0.74 | 0 | P4 | TWD | 13 | AV4 0.00 | WAR | |
| | 36 | 99 | 0.5 | 0 | P4 | TWD | 11 | AV4 0.06 | WAR | |
| | 37 | 99 | 0.94 | 0 | P4 | TWD | 16 | AV4 0.15 | WAR | |
| | 38 | 75 | 0.82 | 0 | P4 | TWD | 15 | AV2 0.00 | WAR | |
| | 39 | 59 | 0.3 | 0 | P4 | TWD | 7 | AV4 0.00 | WAR | |
| | 44 | 91 | 1.17 | 0 | P4 | TWD | 19 | AV2 0.00 | WAR | |

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| B | 45 | 24 | 0.52 | 0 | P4 | TWD | 11 | AV4 -0.03 | WAR | |
| | 47 | 27 | 1.02 | 0 | P4 | TWD | 16 | AV4 0.00 | WAR | |
| | | | 1.47 | 0 | P4 | TWD | 20 | AV3 0.03 | WAR | |
| | | | 0.47 | 0 | P4 | TWD | 10 | AV2 -0.06 | WAR | |
| | 47 | 88 | 0.81 | 0 | P4 | TWD | 14 | AV4 0.00 | WAR | |
| | | | 0.86 | 0 | P4 | TWD | 15 | AV2 0.00 | WAR | |

Attachment C
SG 2C Eddy Current Indications and Anomalies

Indication Codes

SG - C

Catawba Unit 2 D5 EOC14

| Ind Type | Description |
|-----------------|--------------------|
|-----------------|--------------------|

| | |
|-----|---|
| CHG | Change in Indication |
| NQI | Indication Non-Quantifiable Indication |
| SAI | Indication Single Axial Indication |
| SVI | Indication Single Volumetric Indication |
| TWD | Through Wall |
| VOL | Volumetric |
| WAR | Wear |

These codes are used in the following eddy current report for steam generator 2C.

Note: The reported tube indications are for those that were determined to be active in that they are service related. All original baseline indications are not reported here.

Active degradation for Steam Generator C

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| C | 1 | 19 | 2.58 | 26 | 58 | SAI | | TEH +0.25 | | |
| | 3 | 51 | 6.2 | 167 | 146 | SAI | | TEH +0.09 | | |
| | 7 | 109 | 0.82 | 84 | 186 | SVI | | 04H -0.75 | | |
| | | | 1.23 | 127 | 195 | NQI | | 04H -0.89 | CHG | |
| | 27 | 9 | 2.62 | 0 | P4 | TWD | 26 | AV2 -0.03 | WAR | |
| | 28 | 10 | 1.01 | 0 | P4 | TWD | 15 | AV2 0.00 | WAR | |
| | 28 | 11 | 0.8 | 0 | P4 | TWD | 12 | AV2 -0.08 | WAR | |
| | 28 | 105 | 1.23 | 0 | P4 | TWD | 18 | AV3 0.00 | WAR | |
| | 29 | 10 | 0.8 | 0 | P4 | TWD | 13 | AV3 -0.05 | WAR | |
| | | | 0.75 | 0 | P4 | TWD | 12 | AV2 -0.15 | WAR | |
| | 29 | 12 | 0.84 | 0 | P4 | TWD | 13 | AV3 0.08 | WAR | |
| | | | 1.13 | 0 | P4 | TWD | 16 | AV2 0.03 | WAR | |
| | 29 | 14 | 0.81 | 0 | P4 | TWD | 13 | AV3 -0.08 | WAR | |
| | 30 | 15 | 1.4 | 0 | P4 | TWD | 18 | AV4 0.15 | WAR | |
| | 31 | 11 | 0.62 | 0 | P4 | TWD | 9 | AV1 0.03 | WAR | |
| | 31 | 12 | 1.65 | 0 | P4 | TWD | 21 | AV3 0.14 | WAR | |
| | 33 | 12 | 1.37 | 0 | P4 | TWD | 19 | AV2 -0.13 | WAR | |
| | | | 1 | 0 | P4 | TWD | 16 | AV1 0.00 | WAR | |
| | 33 | 14 | 1.02 | 0 | P4 | TWD | 15 | AV3 -0.08 | WAR | |
| | | | 1.72 | 0 | P4 | TWD | 22 | AV2 -0.13 | WAR | |
| | 33 | 55 | 1.77 | 0 | P4 | TWD | 23 | AV3 0.00 | WAR | |
| | 33 | 100 | 0.77 | 0 | P4 | TWD | 13 | AV2 0.14 | WAR | |
| | 33 | 102 | 0.7 | 0 | P4 | TWD | 12 | AV2 0.13 | WAR | |
| | 36 | 25 | 0.42 | 0 | P4 | TWD | 8 | AV2 0.03 | WAR | |
| | 36 | 37 | 0.41 | 0 | P4 | TWD | 9 | AV2 0.06 | WAR | |
| | 36 | 98 | 1.08 | 0 | P4 | TWD | 16 | AV2 0.11 | WAR | |
| | 38 | 17 | 0.59 | 0 | P4 | TWD | 9 | AV4 -0.05 | WAR | |
| | | | 1.47 | 0 | P4 | TWD | 18 | AV2 -0.08 | WAR | |
| | | | 0.65 | 0 | P4 | TWD | 10 | AV1 0.00 | WAR | |
| | 38 | 23 | 0.53 | 0 | P4 | TWD | 10 | AV4 0.05 | WAR | |
| | | | 0.58 | 0 | P4 | TWD | 11 | AV2 0.00 | WAR | |
| | 38 | 34 | 0.8 | 0 | P4 | TWD | 14 | AV2 0.30 | WAR | |
| | 38 | 97 | 1.16 | 0 | P4 | TWD | 18 | AV2 -0.05 | WAR | |
| | 38 | 99 | 3.33 | 0 | P4 | TWD | 31 | AV4 0.21 | WAR | |
| | | | 1.13 | 0 | P4 | TWD | 17 | AV3 0.02 | WAR | |
| | 39 | 17 | 0.52 | 0 | P4 | TWD | 9 | AV1 0.00 | WAR | |
| | 39 | 18 | 1.19 | 0 | P4 | TWD | 18 | AV2 -0.03 | WAR | |
| | 39 | 27 | 0.96 | 0 | P4 | TWD | 15 | AV3 -0.03 | WAR | |
| | | | 0.76 | 0 | P4 | TWD | 13 | AV2 0.21 | WAR | |
| | 39 | 94 | 1.23 | 0 | P4 | TWD | 18 | AV3 0.00 | WAR | |
| | 39 | 97 | 0.97 | 0 | P4 | TWD | 16 | AV4 0.00 | WAR | |
| | | | 0.51 | 0 | P4 | TWD | 11 | AV3 0.00 | WAR | |
| | | | 0.74 | 0 | P4 | TWD | 14 | AV2 0.00 | WAR | |
| | 40 | 20 | 1.67 | 0 | P4 | TWD | 23 | AV2 -0.05 | WAR | |
| | 40 | 22 | 0.61 | 0 | P4 | TWD | 12 | AV2 -0.05 | WAR | |
| | 40 | 27 | 0.95 | 0 | P4 | TWD | 15 | AV2 0.05 | WAR | |
| | 41 | 20 | 0.51 | 0 | P4 | TWD | 10 | AV3 0.05 | WAR | |
| | | | 0.63 | 0 | P4 | TWD | 12 | AV2 -0.03 | WAR | |
| | | | 0.65 | 0 | P4 | TWD | 12 | AV1 -0.03 | WAR | |

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| C | 43 | 93 | 0.48 | 0 | P4 | TWD | 10 | AV4 0.00 | WAR | |
| | | | 0.39 | 0 | P4 | TWD | 9 | AV3 0.00 | WAR | |
| | | | 0.83 | 0 | P4 | TWD | 15 | AV2 0.00 | WAR | |
| | 44 | 81 | 0.55 | 0 | P4 | TWD | 12 | AV4 0.00 | WAR | |
| | | | 2.75 | 0 | P4 | TWD | 29 | AV2 0.30 | WAR | |
| | | | 1.48 | 0 | P4 | TWD | 21 | AV3 0.27 | WAR | |
| | 48 | 48 | 0.62 | 77 | P19 | VOL | | AV1 +0.00 | WAR | |
| | | | 0.88 | 143 | P2 | VOL | | AV4 +0.00 | WAR | |
| | 49 | 59 | 1.48 | 102 | P30 | TWD | 21 | 13C +0.00 | WAR | |
| | | | 2.55 | 117 | P23 | VOL | | 13C +0.34 | WAR | |
| | | | 2.61 | 0 | P2 | NQI | | 13C 0.28 | WAR | |
| | 49 | 76 | 1.99 | 0 | P4 | TWD | 26 | AV1 0.00 | WAR | |

Attachment D
SG 2D Eddy Current Indications and Anomalies

Indication Codes

SG - D

Catawba Unit 2 D5 EOC14

| Ind Type | Description |
|-----------------|--------------------|
|-----------------|--------------------|

| | |
|------------|---|
| MAI | Indication Multiple Axial Indication |
| NQI | Indication Non-Quantifiable Indication |
| SCI | Indication Single Circumferential Indication |
| TWD | Through Wall |
| VOL | Indication Volumetric |
| WAR | Wear |

These codes are used in the following eddy current report for steam generator 2D.

Note: The reported tube indications are for those that were determined to be active in that they are service related. All original baseline indications are not reported here.

Active degradation for Steam Generator D

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| D | 25 | 107 | 2.06 | 0 P4 | TWD | | 18 | AV2 0.00 | WAR | |
| | | | 0.77 | 0 P4 | TWD | | 8 | AV3 0.00 | WAR | |
| | 27 | 107 | 1.49 | 0 P4 | TWD | | 14 | AV2 0.27 | WAR | |
| | 28 | 10 | 0.92 | 0 P4 | TWD | | 10 | AV4 0.00 | WAR | |
| | | | 0.65 | 0 P4 | TWD | | 8 | AV3 0.00 | WAR | |
| | 28 | 16 | 1.87 | 0 P4 | TWD | | 17 | 13C -0.47 | WAR | |
| | 28 | 71 | 1.79 | 0 P4 | TWD | | 18 | AV2 -0.31 | WAR | |
| | 28 | 105 | 1.49 | 0 P4 | TWD | | 14 | AV2 0.00 | WAR | |
| | 29 | 104 | 1.02 | 0 P4 | TWD | | 10 | AV2 0.10 | WAR | |
| | 30 | 102 | 2.43 | 0 P4 | TWD | | 21 | AV3 0.09 | WAR | |
| | 33 | 13 | 1.13 | 0 P4 | TWD | | 12 | AV4 0.00 | WAR | |
| | | | 2.3 | 0 P4 | TWD | | 20 | AV2 0.00 | WAR | |
| | | | 1.54 | 0 P4 | TWD | | 15 | AV3 0.00 | WAR | |
| | 33 | 79 | 1.09 | 0 P4 | TWD | | 11 | AV2 -0.03 | WAR | |
| | 34 | 98 | 1.82 | 0 P4 | TWD | | 18 | AV2 0.00 | WAR | |
| | 34 | 99 | 1.22 | 0 P4 | TWD | | 13 | AV2 0.09 | WAR | |
| | 34 | 100 | 1.11 | 0 P4 | TWD | | 12 | AV3 -0.03 | WAR | |
| | 35 | 14 | 1.5 | 0 P4 | TWD | | 15 | AV4 0.00 | WAR | |
| | | | 4.84 | 0 P4 | TWD | | 32 | AV2 0.00 | WAR | |
| | 35 | 17 | 6.55 | 43 | 98 | SCI | | TEH +0.31 | | |
| | 35 | 43 | 4.29 | 135 | 98 | SCI | | TEH +0.42 | | |
| | 35 | 96 | 0.54 | 0 P4 | TWD | | 6 | AV2 0.09 | WAR | |
| | 36 | 16 | 1.35 | 0 P4 | TWD | | 13 | AV4 0.00 | WAR | |
| | | | 1.12 | 0 P4 | TWD | | 11 | AV3 -0.06 | WAR | |
| | | | 4.82 | 0 P4 | TWD | | 31 | AV2 0.00 | WAR | |
| | | | 1.37 | 0 P4 | TWD | | 13 | AV1 0.00 | WAR | |
| | 36 | 65 | 2.31 | 0 P4 | TWD | | 20 | AV3 0.33 | WAR | |
| | 36 | 93 | 1.22 | 0 P4 | TWD | | 13 | AV2 0.03 | WAR | |
| | 36 | 94 | 1.06 | 0 P4 | TWD | | 11 | AV2 0.00 | WAR | |
| | | | 0.61 | 0 P4 | TWD | | 7 | AV1 0.00 | WAR | |
| | 36 | 96 | 0.77 | 0 P4 | TWD | | 9 | AV3 0.00 | WAR | |
| | | | 1.48 | 0 P4 | TWD | | 15 | AV2 -0.03 | WAR | |
| | 36 | 97 | 1.59 | 0 P4 | TWD | | 15 | AV2 0.00 | WAR | |
| | 36 | 98 | 1.32 | 0 P4 | TWD | | 14 | AV3 0.06 | WAR | |
| | 37 | 17 | 1.71 | 0 P4 | TWD | | 17 | AV4 0.00 | WAR | |
| | | | 1.67 | 0 P4 | TWD | | 17 | AV2 -0.03 | WAR | |
| | 38 | 18 | 2.24 | 0 P4 | TWD | | 19 | AV4 0.00 | WAR | |
| | | | 2.56 | 0 P4 | TWD | | 21 | AV2 0.14 | WAR | |
| | 38 | 19 | 1.41 | 0 P4 | TWD | | 13 | AV2 0.09 | WAR | |
| | 38 | 20 | 1.72 | 0 P4 | TWD | | 16 | AV4 0.00 | WAR | |
| | | | 1.5 | 0 P4 | TWD | | 14 | AV2 0.00 | WAR | |
| | 38 | 21 | 1.51 | 0 P4 | TWD | | 14 | AV2 0.00 | WAR | |
| | 38 | 26 | 1.08 | 0 P4 | TWD | | 11 | AV2 0.38 | WAR | |
| | 38 | 64 | 1.99 | 0 P4 | TWD | | 17 | AV2 0.00 | WAR | |
| | 38 | 78 | 1.82 | 0 P4 | TWD | | 17 | AV3 -0.12 | WAR | |
| | 38 | 90 | 1.06 | 0 P4 | TWD | | 12 | AV2 -0.12 | WAR | |
| | 38 | 93 | 2.53 | 0 P4 | TWD | | 21 | AV2 0.00 | WAR | |
| | | | 0.89 | 0 P4 | TWD | | 10 | AV3 0.06 | WAR | |
| | 39 | 81 | 0.87 | 0 P4 | TWD | | 10 | AV2 0.21 | WAR | |

| <u>SG</u> | <u>ROW</u> | <u>COL</u> | <u>VOLTS</u> | <u>DEG</u> | <u>CHN</u> | <u>IND</u> | <u>%TW</u> | <u>LOCATION</u> | <u>UTIL 1</u> | <u>UTIL 2</u> |
|-----------|------------|------------|--------------|------------|------------|------------|------------|-----------------|---------------|---------------|
| D | 39 | 96 | 1.4 | 0 P4 | | TWD | 14 | AV3 0.00 | WAR | |
| | 39 | 98 | 0.95 | 0 P4 | | TWD | 10 | AV1 0.12 | WAR | |
| | 40 | 93 | 1.09 | 0 P4 | | TWD | 12 | AV2 0.15 | WAR | |
| | 40 | 94 | 1.52 | 0 P4 | | TWD | 15 | AV3 0.17 | WAR | |
| | | | 1.54 | 0 P4 | | TWD | 16 | AV2 0.00 | WAR | |
| | 40 | 97 | 0.93 | 0 P4 | | TWD | 10 | AV3 -0.06 | WAR | |
| | | | 0.85 | 0 P4 | | TWD | 10 | AV1 0.06 | WAR | |
| | 41 | 20 | 1.46 | 0 P4 | | TWD | 15 | AV4 0.00 | WAR | |
| | 41 | 59 | 4.57 | 33 | 138 | MAI | | TEH +0.37 | | |
| | | | 2.83 | 11 | 34 | SCI | | TEH +0.77 | | |
| | 41 | 60 | 3.35 | 81 | 138 | MAI | | TEH +0.31 | | |
| | | | 2.82 | 14 | 46 | SCI | | TEH +0.55 | | |
| | 41 | 77 | 0.77 | 0 P4 | | TWD | 9 | AV3 -0.03 | WAR | |
| | | | 2.04 | 0 P4 | | TWD | 19 | AV2 0.24 | WAR | |
| | 42 | 23 | 1.49 | 0 P4 | | TWD | 14 | AV4 0.00 | WAR | |
| | | | 2.63 | 0 P4 | | TWD | 21 | AV2 0.00 | WAR | |
| | 42 | 30 | 1.48 | 0 P4 | | TWD | 14 | AV2 0.30 | WAR | |
| | 42 | 32 | 1.47 | 0 P4 | | TWD | 14 | AV2 0.15 | WAR | |
| | 42 | 64 | 1.01 | 110 | 58 | VOL | | 13C -0.15 | | |
| | | | 3.05 | 98 | P2 | NQI | | 13C 0.06 | WAR | |
| | 42 | 85 | 1.04 | 0 P4 | | TWD | 11 | AV3 -0.03 | WAR | |
| | | | 1.21 | 0 P4 | | TWD | 13 | AV2 0.03 | WAR | |
| | 43 | 22 | 2.29 | 0 P4 | | TWD | 21 | AV4 0.00 | WAR | |
| | | | 0.98 | 0 P4 | | TWD | 11 | AV2 0.00 | WAR | |
| | | | 3.37 | 0 P4 | | TWD | 26 | AV3 0.00 | WAR | |
| | 43 | 29 | 1.2 | 0 P4 | | TWD | 13 | AV2 0.00 | WAR | |
| | 43 | 78 | 4.58 | 0 P4 | | TWD | 31 | AV3 0.00 | WAR | |
| | | | 2.58 | 0 P4 | | TWD | 22 | AV2 -0.06 | WAR | |
| | | | 0.89 | 0 P4 | | TWD | 9 | AV1 0.18 | WAR | |
| | 44 | 24 | 1.65 | 0 P4 | | TWD | 15 | AV3 -0.25 | WAR | |
| | 44 | 46 | 2.22 | 0 P4 | | TWD | 20 | AV3 -0.21 | WAR | |
| | 44 | 90 | 0.43 | 0 P4 | | TWD | 5 | AV1 0.00 | WAR | |
| | 44 | 91 | 0.71 | 0 P4 | | TWD | 8 | AV4 0.21 | WAR | |
| | 45 | 52 | 2.32 | 0 P2 | | TWD | 18 | 15C -0.46 | WAR | |
| | 45 | 91 | 0.76 | 0 P4 | | TWD | 9 | AV4 0.00 | WAR | |
| | | | 0.62 | 0 P4 | | TWD | 7 | AV2 0.21 | WAR | |
| | 47 | 87 | 0.85 | 0 P4 | | TWD | 9 | AV4 0.10 | WAR | |
| | 48 | 78 | 4.52 | 0 P4 | | TWD | 31 | AV4 -0.31 | WAR | |
| | 48 | 82 | 0.86 | 0 P4 | | TWD | 9 | AV1 0.00 | WAR | |
| | 49 | 37 | 0.69 | 0 P4 | | TWD | 10 | AV1 -0.03 | WAR | |
| | 49 | 74 | 1.08 | 0 P4 | | TWD | 12 | AV4 0.24 | WAR | |
| | 49 | 84 | 0.67 | 0 P4 | | TWD | 8 | AV1 0.13 | WAR | |