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July 11, 2013

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

SUBJECT: Duke Energy Carolinas, LLC
McGuire Nuclear Station
Docket No. 50-369
Steam Generator In-Service Inspection Summary Report
Unit 1, End of Cycle (EOC) 22

Pursuant to ASME Section XI and McGuire Technical Specification 5.6.8, Duke Energy hereby submits the attached Steam Generator In-Service Inspection Summary Report for the McGuire Unit 1 EOC 22 refueling outage.

Questions regarding the attached report should be directed to Kay Crane, McGuire Regulatory Affairs at (980) 875-4306.

A handwritten signature in black ink that reads 'S D Capps'.

Steven D. Capps

Attachment

AD47
NRB

U. S. Nuclear Regulatory Commission
July 11, 2013
Page 2

xc:

Mr. Victor McCree
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, GA 30303-1257

Mr. Jason Paige
NRC Project Manager
U. S. Nuclear Regulatory Commission
Mail Stop 8G9A
11555 Rockville Pike
Rockville, MD 20852-27238

John Zeiler
NRC Senior Resident Inspector
McGuire Nuclear Station

***Steam Generator
In-service Inspection Summary Report***

***McGuire Nuclear Station
Unit 1 EOC 22
Spring Outage 2013***

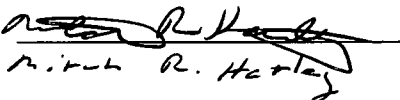
Location: McGuire Nuclear Station, 12700 Hagers Ferry Road Huntersville,
N.C. 28078-9340

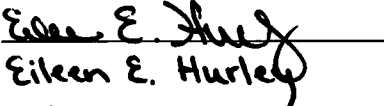
NRC Docket No. 50-369
National Board No. 44

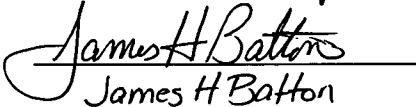
Commercial Service Date: December 1, 1981

Owner: Duke Energy Carolinas, LLC
526 South Church St.
Charlotte, N.C. 28202

Revision 0

Prepared By:  Date: 6-12-13
Michael R. Hartley

Checked By:  Date: 6/11/13
Eileen E. Hurley

Approved By:  Date: 6/13/2013
James H. Batton

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McGuire Nuclear Station
Document Control
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1

NRC Document Control

Uncontrolled Distribution

2

Hartford Steam Boiler
Inspection and Insurance
Corporation (AIA)

3

State of North Carolina
Department of Labor

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: McGuire Nuclear Station, 12700 Hagers Ferry Rd, Huntersville, NC 28078-9340
(Name and Address of Plant)
3. Plant Unit: 1
4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date: December 1, 1981
6. National Board Number for Unit 44
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 1A	BWI	7701-04	NC-302668	157
Steam Generator 1B	BWI	7693-01	NC-302669	146
Steam Generator 1C	BWI	7701-03	NC-302670	155
Steam Generator 1D	BWI	7701-02	NC-302671	154

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8¹/₂ 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 October 15, 2011 to April 21, 2013
- 9. Inspection Period Identification: First Period
- 10. Inspection Interval Identification: Fourth Interval
- 11. Applicable Edition of Section XI 1998 Addenda 2000
- 12. Date/Revision of Inspection Plan: September 10th, 2012 Rev 0
- 13. Abstract of Examinations and Test. Reference attached response to Technical Specification 5.6.8 Steam Generator Tube Inspection Report.
- 14. Abstract of Results of Examination and Tests. Reference attached response to Technical Specification 5.6.8 Steam Generator Tube Inspection Report.
- 15. Abstract of Corrective Measures. Reference attached response to Technical Specification 5.6.8 Steam Generator Tube Inspection Report.

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 6-10 20 13 Signed Duke Energy Corp. By [Signature]
Owner Michael R. Henry

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 & Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 10-15-2011 to 4-21-2013, 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 Owner's 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 Owner's 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

[Signature] Commissions NB11473 NC1524, N, I
Inspector's Signature National Board, State, Province, and Endorsements

Date 7-9 - 20 13

* The Hartford Steam Boiler Inspection & Insurance Company of Connecticut
200 Ashford Center North
Suite 205
Atlanta, GA. 30338

McGuire 1 EOC 22 Steam Generator Tube Inspection Report

Pursuant to ASME Section XI and McGuire Technical Specification 5.6.8 the following information is provided:

a. The scope of inspections performed on each SG

Baseline inspection scope included full length data acquisition and bobbin coil data analysis on all four (4) steam generators as follows:

- 1) *100% of all tubes in all four Steam Generators.*

Special interest inspection scope included data acquisition and array data analysis as follows:

- 1) *Periphery tubes (5 tubes in from periphery) from top of tubesheet to the first support in both hot leg (TSH to 01H) and cold leg (TSC to 01C).*
- 2) *Bounding inspection two tubes deep for tubes plugged last inspection for loose parts.*
- 3) *All new DNT and new TWD reported during EOC22.*
- 4) *All bobbin I-codes and PLP. All confirmed PLP calls were bounded one tube deep.*
- 5) *All confirmed ECT PLP calls from the previous inspection.*

Plug inspection scope as follows:

- 1) *Visual inspection of all plugs*

Secondary Side visual inspection scope as follows:

- 1) *Top of tubesheet, five tube pitches deep from the periphery and tube free lane in all four Steam Generators for loose parts.*
- 2) *Steam Drum inspection in the 1A & 1D SGs*
- 3) *Seventh lattice grid in the 1A SG.*

b. Active degradation mechanisms found

Active degradation found in all four (4) steam generators include wear at support structures and wear from loose parts.

c. Non-destructive examination techniques utilized for each degradation mechanism

Bobbin was used to detect wear at support structures. Bobbin and array were used to detect wear from loose objects.

d. Location, orientation (if linear), and measured sizes (if available) of service induced indications

The complete listing for service induced indications is referenced in attachment #1

e. Number of tubes plugged during the inspection outage for each active degradation mechanism

In the 1D SG, four tubes were plugged due to wear and as a preventive measure associated with a foreign object that could not be removed.

f. The total number and percentage of tubes plugged to date

Tube Plugged					
Steam Generator	A	B	C	D	Total
Prior to 1EOC22	2	4	5	4	15
1EOC22	0	0	0	4	4
Total	2	4	5	8	19
% Plugged	0.03%	0.06%	0.075%	0.12%	0.072%

g. The results of condition monitoring, including the results of tube pulls and in-situ pressure testing

An NDE maximum depth call of 49 %TW or less is sufficient to demonstrate a minimum degraded tube burst pressure of $3\Delta P$ at 0.95 probability with 50% confidence. This calculation is very conservative as it considers a potential 2% MUR power uprate at McGuire Unit 1 and its associated increase in the operating pressure from the previously used value of 3,900 psi to 4,125 psi. This value is especially conservative as the uprate has not yet been performed. The calculation also uses a conservative worst case wear scar that is 2.0 inches in axial length and flat in profile. The worst case support structure wear call observed during McGuire 1EOC22 was 28 %TW. Therefore, condition monitoring structural integrity was demonstrated for support structure wear.

In addition to structural support wear, there were seven indications of wear due to foreign object. One foreign object wear scar was found in SG 1A and six were identified in SG 1D. Four of the indications had no evidence of a foreign object remaining at the wear location. The other three indications had an eddy current signal which indicated the foreign object remains present at the wear site. The two populations were evaluated separately for condition monitoring purposes.

The condition monitoring limit for a relatively foreign object flat wear scar with limited circumferential extent is 42.8 %TW when a conservative bounding length of 2.0 inches is applied. The maximum observed NDE depth for this population is 28 %TW. Therefore, condition monitoring structural integrity is demonstrated for foreign object wear with no part present, a flat profile, and a worst case bounding length of 2.0 inches.

For the three indications that still showed evidence of a loose part in SG 1D, a +Point probe exam was performed to demonstrate Condition Monitoring acceptability. The EPRI Steam Generator In Situ Pressure Test Guidelines provide screening criteria for foreign object wear with a +Point exam. The criteria can be found in Section 4.5.1 and state that "For foreign object wear and cold leg thinning if $VM \leq 2$ volts and axial length is ≤ 1 inch, condition monitoring is met for structural integrity and a proof test is not necessary."

The worst case +Point voltage was 0.33 volts and was in R6 C61 of SG 1D while the worst case axial length measured 0.18 inches in R4 C61 of SG 1D, thus easily meeting condition monitoring requirements.

Since the burst pressure equation treats through-wall tearing as coincident with burst, leakage integrity is also demonstrated at the lower differential pressure of a postulated steam line break accident.

All plugs were visually inspected. No anomalies of plugs were found.

Secondary side inspections were performed on all four SG's at the lower tubesheet. A number of foreign objects were identified in the tubesheet region. These foreign objects were either removed, evaluated to be acceptable to leave in place, or tubes were preventively plugged.

A Steam Drum visual inspection was performed in the 1A & 1D SGs and a 7th lattice grid visual inspection was performed in the 1A SG. Some expected erosion of the primary and secondary separators was noted. No other issues were noted.

No in-situ testing was required or performed. No tube pulls were performed.

h. The effective plugging percentage for all plugging in each SG

The effective plugging percentage for each of the McGuire Unit 1 Steam Generators is identical to those shown in section (f) above.

Attachment 1

Location, orientation, and measured sizes of service induced indications

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
77	20	.38	162	PCT	9	38	TSC	.15				.26	.32	53	01C	TEC	.560	ZYXP	41	C
60	47	.13	0	PCT	7	P2	FB5	-.99		WAR					TEH	TEC	.560	ZBAZ1	19	C
72	53	.25	0	PCT	12	P2	FB5	1.63		WAR					TEH	TEC	.560	ZBAZ1	25	C
61	54	.17	0	PCT	9	P2	FB4	1.40		WAR					TEH	TEC	.560	ZBAZ1	25	C
108	57	.52	0	PCT	18	P2	FB5	1.23		WAR					TEH	TEC	.560	ZBAZ1	21	C
110	57	.46	0	PCT	18	P2	FB5	1.77		WAR					TEH	TEC	.560	ZBAZ1	21	C
81	58	.57	0	PCT	21	P2	FB4	-.82		WAR					TEH	TEC	.560	ZBAZ1	25	C
111	58	.07	0	PCT	4	P2	FB5	1.17		WAR					TEH	TEC	.560	ZBAZ1	21	C
84	59	.40	0	PCT	15	P2	FB5	-.69		WAR					TEH	TEC	.560	ZBAZ1	27	C
98	59	.45	0	PCT	18	P2	FB4	-1.63		WAR					TEH	TEC	.560	ZBAZ1	29	C
100	59	.31	0	PCT	14	P2	FB4	-1.66		WAR					TEH	TEC	.560	ZBAZ1	29	C
45	60	.45	0	PCT	17	P2	FB4	1.16		WAR					TEH	TEC	.560	ZBAZ1	27	C
49	60	.57	0	PCT	20	P2	03H	-1.53		WAR					TEH	TEC	.560	ZBAZ1	27	C
79	60	.41	0	PCT	15	P2	FB4	-.88		WAR					TEH	TEC	.560	ZBAZ1	27	C
81	60	.63	0	PCT	22	P2	FB4	-.63		WAR					TEH	TEC	.560	ZBAZ1	27	C
83	60	.55	0	PCT	19	P2	FB4	-.76		WAR					TEH	TEC	.560	ZBAZ1	27	C
95	60	.48	0	PCT	17	P2	FB4	-.65		WAR					TEH	TEC	.560	ZBAZ1	27	C
95	60	.60	0	PCT	20	P2	FB5	-1.37		WAR					TEH	TEC	.560	ZBAZ1	27	C
94	61	.47	0	PCT	17	P2	FB5	-1.64		WAR					TEH	TEC	.560	ZBAZ1	31	C
79	62	.52	0	PCT	19	P2	FB4	-.55		WAR					TEH	TEC	.560	ZBAZ1	29	C
79	62	.36	0	PCT	15	P2	FB4	.84		WAR					TEH	TEC	.560	ZBAZ1	29	C
113	62	.34	0	PCT	14	P2	FB4	-1.08		WAR					TEH	TEC	.560	ZBAZ1	23	C
113	62	.43	0	PCT	14	P2	FB7	.78		WAR					TEH	TEC	.560	ZBAZ1	23	C
70	63	.22	0	PCT	9	P2	FB3	.58		WAR					TEH	TEC	.560	ZBAZ1	31	C
72	63	.37	0	PCT	14	P2	FB5	1.30		WAR					TEH	TEC	.560	ZBAZ1	31	C
55	64	.26	0	PCT	11	P2	FB3	.94		WAR					TEH	TEC	.560	ZBAZ1	31	C
95	64	.40	0	PCT	15	P2	FB3	-1.11		WAR					TEH	TEC	.560	ZBAZ1	31	C
95	64	.36	0	PCT	14	P2	FB5	-1.13		WAR					TEH	TEC	.560	ZBAZ1	31	C
97	64	.21	0	PCT	9	P2	FB2	.61		WAR					TEH	TEC	.560	ZBAZ1	31	C
99	64	.49	0	PCT	17	P2	FB3	-1.10		WAR					TEH	TEC	.560	ZBAZ1	31	C
99	64	.63	0	PCT	20	P2	FB4	-1.16		WAR					TEH	TEC	.560	ZBAZ1	31	C
99	64	.47	0	PCT	17	P2	FB5	-1.16		WAR					TEH	TEC	.560	ZBAZ1	31	C
100	65	.47	0	PCT	17	P2	FB5	.70		WAR					TEH	TEC	.560	ZBAZ1	31	C
112	65	.38	0	PCT	15	P2	FB2	.38		WAR					TEH	TEC	.560	ZBAZ1	29	C
112	65	.58	0	PCT	21	P2	FB5	.59		WAR					TEH	TEC	.560	ZBAZ1	29	C
112	65	.55	0	PCT	20	P2	FB6	1.53		WAR					TEH	TEC	.560	ZBAZ1	29	C
105	66	.50	0	PCT	17	P2	FB4	-.61		WAR					TEH	TEC	.560	ZBAZ1	31	C
109	66	.39	0	PCT	14	P2	FB4	-.71		WAR					TEH	TEC	.560	ZBAZ1	31	C
111	66	.39	0	PCT	14	P2	FB4	-.85		WAR					TEH	TEC	.560	ZBAZ1	31	C
111	66	.57	0	PCT	19	P2	FB4	1.09		WAR					TEH	TEC	.560	ZBAZ1	31	C
111	66	.73	0	PCT	22	P2	FB6	-1.07		WAR					TEH	TEC	.560	ZBAZ1	31	C
115	66	.34	0	PCT	12	P2	FB4	.61		WAR					TEH	TEC	.560	ZBAZ1	23	C
86	67	.22	0	PCT	9	P2	FB4	1.47		WAR					TEH	TEC	.560	ZBAZ1	55	C
102	67	.40	0	PCT	15	P2	FB3	1.06		WAR					TEH	TEC	.560	ZBAZ1	31	C
102	67	.52	0	PCT	18	P2	FB5	.84		WAR					TEH	TEC	.560	ZBAZ1	31	C
106	67	.54	0	PCT	19	P2	FB4	-1.61		WAR					TEH	TEC	.560	ZBAZ1	31	C
106	67	.38	0	PCT	14	P2	FB5	-1.65		WAR					TEH	TEC	.560	ZBAZ1	31	C
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116	67	.48	0	PCT	15	P2	FB3	-.69		WAR					TEH	TEC	.560	ZBAZ1	23	C
37	68	.26	0	PCT	11	P2	FB5	-.91		WAR					TEH	TEC	.560	ZBAZ1	55	C
43	68	.36	0	PCT	14	P2	FB5	-.86		WAR					TEH	TEC	.560	ZBAZ1	55	C
77	68	.28	0	PCT	11	P2	FB4	1.40		WAR					TEH	TEC	.560	ZBAZ1	55	C

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
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ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L	
97	68	.16	0	PCT	8	P2	FB6	1.04		WAR						TEH	TEC	.560	ZBAZ1	59	C
103	68	.42	0	PCT	15	P2	FB3	-1.24		WAR						TEH	TEC	.560	ZBAZ1	31	C
103	68	.53	0	PCT	18	P2	FB4	-1.11		WAR						TEH	TEC	.560	ZBAZ1	31	C
111	68	.37	0	PCT	15	P2	FB4	.51		WAR						TEH	TEC	.560	ZBAZ1	31	C
113	68	.52	0	PCT	19	P2	FB4	-.50		WAR						TEH	TEC	.560	ZBAZ1	29	C
90	69	.49	0	PCT	20	P2	FB4	1.05		WAR						TEH	TEC	.560	ZBAZ1	57	C
92	69	.22	0	PCT	11	P2	FB4	1.68		WAR						TEH	TEC	.560	ZBAZ1	57	C
104	69	.39	0	PCT	14	P2	FB4	1.22		WAR						TEH	TEC	.560	ZBAZ1	31	C
106	69	.62	0	PCT	20	P2	FB5	.84		WAR						TEH	TEC	.560	ZBAZ1	31	C
106	69	.52	0	PCT	18	P2	FB6	1.18		WAR						TEH	TEC	.560	ZBAZ1	31	C
108	69	.55	0	PCT	20	P2	FB4	1.15		WAR						TEH	TEC	.560	ZBAZ1	29	C
112	69	.37	0	PCT	14	P2	FB2	.69		WAR						TEH	TEC	.560	ZBAZ1	31	C
112	69	.48	0	PCT	17	P2	FB3	1.10		WAR						TEH	TEC	.560	ZBAZ1	31	C
95	70	.30	0	PCT	14	P2	FB4	-.80		WAR						TEH	TEC	.560	ZBAZ1	57	C
95	70	.23	0	PCT	12	P2	FB5	-1.69		WAR						TEH	TEC	.560	ZBAZ1	57	C
109	70	.27	0	PCT	12	P2	FB4	.83		WAR						TEH	TEC	.560	ZBAZ1	29	C
58	71	.31	0	PCT	13	P2	FB6	1.01		WAR						TEH	TEC	.560	ZBAZ1	55	C
74	71	.31	0	PCT	13	P2	FB4	1.56		WAR						TEH	TEC	.560	ZBAZ1	55	C
74	71	.30	0	PCT	12	P2	FB5	.67		WAR						TEH	TEC	.560	ZBAZ1	55	C
114	71	.49	0	PCT	17	P2	FB4	1.45		WAR						TEH	TEC	.560	ZBAZ1	31	C
69	72	.13	0	PCT	8	P2	FB4	-.63		WAR						TEH	TEC	.560	ZBAZ1	55	C
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93	72	.39	0	PCT	17	P2	FB5	.06		WAR						TEH	TEC	.560	ZBAZ1	55	C
109	72	.78	0	PCT	23	P2	FB5	.00		WAR						TEH	TEC	.560	ZBAZ1	31	C
70	73	.21	0	PCT	11	P2	FB4	1.40		WAR						TEH	TEC	.560	ZBAZ1	57	C
82	73	.15	0	PCT	8	P2	FB7	1.96		WAR						TEH	TEC	.560	ZBAZ1	57	C
86	73	.21	0	PCT	11	P2	FB4	.50		WAR						TEH	TEC	.560	ZBAZ1	57	C
86	73	.24	0	PCT	12	P2	FB5	1.81		WAR						TEH	TEC	.560	ZBAZ1	57	C
88	73	.67	0	PCT	24	P2	FB5	1.67		WAR						TEH	TEC	.560	ZBAZ1	57	C
88	73	.23	0	PCT	12	P2	FB7	1.84		WAR						TEH	TEC	.560	ZBAZ1	57	C
94	73	.38	0	PCT	17	P2	FB5	.61		WAR						TEH	TEC	.560	ZBAZ1	57	C
94	73	.24	0	PCT	12	P2	FB7	1.95		WAR						TEH	TEC	.560	ZBAZ1	57	C
104	73	.39	0	PCT	16	P2	FB7	1.78		WAR						TEH	TEC	.560	ZBAZ1	37	C
112	73	.17	0	PCT	8	P2	FB4	1.07		WAR						TEH	TEC	.560	ZBAZ1	29	C
77	74	.35	0	PCT	14	P2	FB5	-1.24		WAR						TEH	TEC	.560	ZBAZ1	61	C
85	74	.41	0	PCT	17	P2	FB5	-1.69		WAR						TEH	TEC	.560	ZBAZ1	61	C
109	74	.40	0	PCT	15	P2	FB4	1.35		WAR						TEH	TEC	.560	ZBAZ1	31	C
111	74	.24	0	PCT	10	P2	FB4	1.71		WAR						TEH	TEC	.560	ZBAZ1	31	C
72	75	.43	0	PCT	16	P2	FB4	1.42		WAR						TEH	TEC	.560	ZBAZ1	55	C
96	75	.29	0	PCT	13	P2	FB3	-1.79		WAR						TEH	TEC	.560	ZBAZ1	59	C
96	75	.61	0	PCT	22	P2	FB5	.57		WAR						TEH	TEC	.560	ZBAZ1	59	C
99	76	.43	0	PCT	17	P2	FB4	.57		WAR						TEH	TEC	.560	ZBAZ1	59	C
113	76	.72	0	PCT	23	P2	FB4	-1.48		WAR						TEH	TEC	.560	ZBAZ1	31	C
94	77	.15	0	PCT	4	P2	FB4	.49		WAR						TEH	TEC	.560	ZBAZ1	61	C
102	77	.56	0	PCT	20	P2	FB4	1.79		WAR						TEH	TEC	.560	ZBAZ1	37	C
102	77	.50	0	PCT	18	P2	FB5	.77		WAR						TEH	TEC	.560	ZBAZ1	37	C
104	77	.33	0	PCT	14	P2	FB7	.61		WAR						TEH	TEC	.560	ZBAZ1	37	C
106	77	.52	0	PCT	19	P2	FB4	1.33		WAR						TEH	TEC	.560	ZBAZ1	37	C
47	78	.33	0	PCT	14	P2	FB5	-.86		WAR						TEH	TEC	.560	ZBAZ1	65	C
100	79	.44	0	PCT	18	P2	FB4	1.79		WAR						TEH	TEC	.560	ZBAZ1	59	C
100	79	.38	0	PCT	16	P2	FB5	1.51		WAR						TEH	TEC	.560	ZBAZ1	59	C
113	80	.54	0	PCT	20	P2	FB3	.15		WAR						TEH	TEC	.560	ZBAZ1	37	C
113	80	.52	0	PCT	19	P2	FB4	-1.60		WAR						TEH	TEC	.560	ZBAZ1	37	C
113	80	.54	0	PCT	19	P2	FB5	-1.59		WAR						TEH	TEC	.560	ZBAZ1	37	C

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
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ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
85	82	.42	0	PCT	17	P2	FB3	-.60		WAR					TEH	TEC	.560	ZBAZ1	89	C
105	82	.49	0	PCT	18	P2	FB4	-1.60		WAR					TEH	TEC	.560	ZBAZ1	37	C
60	83	.12	0	PCT	6	P2	FB4	-1.01		WAR					TEH	TEC	.560	ZBAZ1	87	C
94	83	.20	0	PCT	10	P2	FB4	1.12		WAR					TEH	TEC	.560	ZBAZ1	59	C
53	84	.10	0	PCT	6	P2	FB5	1.09		WAR					TEH	TEC	.560	ZBAZ1	87	C
77	84	.12	0	PCT	7	P2	FB4	-1.27		WAR					TEH	TEC	.560	ZBAZ1	87	C
81	84	.23	0	PCT	11	P2	FB5	-.80		WAR					TEH	TEC	.560	ZBAZ1	87	C
85	84	.24	0	PCT	12	P2	FB4	-1.22		WAR					TEH	TEC	.560	ZBAZ1	87	C
85	84	.35	0	PCT	15	P2	FB5	-1.03		WAR					TEH	TEC	.560	ZBAZ1	87	C
93	84	.27	0	PCT	12	P2	FB4	-1.01		WAR					TEH	TEC	.560	ZBAZ1	59	C
101	84	.51	0	PCT	19	P2	FB5	-.53		WAR					TEH	TEC	.560	ZBAZ1	37	C
50	87	.17	0	PCT	9	P2	FB6	1.44		WAR					TEH	TEC	.560	ZBAZ1	87	C
66	87	.14	0	PCT	7	P2	FB3	.73		WAR					TEH	TEC	.560	ZBAZ1	87	C
35	88	.08	0	PCT	6	P2	FB5	-1.04		WAR					TEC	TEH	.560	ZBAZ1	22	H
55	88	.08	0	PCT	4	P2	FB3	-1.59	.00	WAR					TEH	TEC	.560	CBAC1	93	C
56	89	.11	0	PCT	6	P2	FB4	-.72		WAR					TEH	TEC	.560	CBAC1	93	C
60	89	.25	0	PCT	11	P2	FB5	1.50		WAR					TEH	TEC	.560	CBAC1	91	C
50	91	.15	0	PCT	8	P2	FB2	.75		WAR					TEH	TEC	.560	CBAC1	97	C
80	91	.16	0	PCT	9	P2	FB4	-1.10		WAR					TEH	TEC	.560	CBAC1	91	C
50	93	.14	0	PCT	6	P2	FB4	.56	.00	WAR					TEC	TEH	.560	CBAC1	91	C
50	95	.08	0	PCT	4	P2	FB4	1.28		WAR					TEH	TEC	.560	CBAC1	95	C
64	97	.09	0	PCT	5	P2	FB4	-1.03		WAR					TEH	TEC	.560	CBAC1	93	C
58	101	.08	0	PCT	5	P2	FB4	-1.39		WAR					TEH	TEC	.560	CBAC1	91	C
72	101	.17	0	PCT	8	P2	FB4	-.95		WAR					TEH	TEC	.560	CBAC1	91	C
74	103	.05	0	PCT	3	P2	FB5	.57		WAR					TEH	TEC	.560	CBAC1	91	C
63	110	.13	0	PCT	7	P2	FB4	.84		WAR					TEH	TEC	.560	CBAC1	97	C
49	126	.12	0	PCT	6	P2	FB4	.78		WAR					TEH	TEC	.560	CBAC1	99	C

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
45	18	.20	0	PCT	10	P2	FB4	.76		WAR					TEC	TEH	.560	ZBAZ1	102	H
88	31	.16	0	PCT	5	P2	08H	.37	.00	WAR					TEC	TEH	.560	ZBAZ1	88	H
62	43	.43	0	PCT	17	P2	07H	-1.77		WAR					TEC	TEH	.560	ZBAZ1	102	H
68	51	.31	0	PCT	13	P2	FB5	-1.36		WAR					TEC	TEH	.560	ZBAZ1	102	H
45	52	.10	0	PCT	6	P2	06H	.63		WAR					TEC	TEH	.560	ZBAZ1	102	H
45	52	.09	0	PCT	5	P2	FB4	-.99		WAR					TEC	TEH	.560	ZBAZ1	102	H
61	52	.14	0	PCT	7	P2	FB5	1.51		WAR					TEC	TEH	.560	ZBAZ1	72	H
46	57	.10	0	PCT	5	P2	FB3	-1.41		WAR					TEC	TEH	.560	ZBAZ1	102	H
69	64	.10	0	PCT	6	P2	FB4	1.23		WAR					TEC	TEH	.560	ZBAZ1	102	H
77	64	.27	0	PCT	12	P2	FB4	-.61		WAR					TEC	TEH	.560	ZBAZ1	102	H
81	64	.45	0	PCT	17	P2	FB4	-.72		WAR					TEC	TEH	.560	ZBAZ1	102	H
82	65	.21	0	PCT	11	P2	FB5	-1.49		WAR					TEC	TEH	.560	ZBAZ1	102	H
94	65	.10	0	PCT	5	P2	FB4	-1.27		WAR					TEC	TEH	.560	ZBAZ1	102	H
77	66	.32	0	PCT	14	P2	FB4	-1.91		WAR					TEC	TEH	.560	ZBAZ1	102	H
81	66	.29	0	PCT	14	P2	FB5	.94		WAR					TEC	TEH	.560	ZBAZ1	102	H
80	67	.18	0	PCT	10	P2	FB4	1.28		WAR					TEC	TEH	.560	ZBAZ1	102	H
94	67	.22	0	PCT	10	P2	FB4	1.71		WAR					TEC	TEH	.560	ZBAZ1	102	H
91	68	.26	0	PCT	13	P2	FB5	-1.54		WAR					TEC	TEH	.560	ZBAZ1	102	H
97	68	.28	0	PCT	14	P2	FB5	-1.16		WAR					TEC	TEH	.560	ZBAZ1	102	H
89	70	.46	0	PCT	21	P2	FB5	1.02		WAR					TEC	TEH	.560	ZBAZ1	52	H
78	71	.40	0	PCT	18	P2	FB5	-1.25		WAR					TEC	TEH	.560	ZBAZ1	102	H
88	71	.25	0	PCT	13	P2	FB5	-1.47		WAR					TEC	TEH	.560	ZBAZ1	102	H
5	72	.15	0	PCT	6	P2	07H	1.44		WAR				09C	TEH	.560	ZBAZ1	108	H	
89	72	.72	0	PCT	23	P2	FB5	.00		WAR					TEC	TEH	.560	ZBAZ1	50	H
95	72	.50	0	PCT	18	P2	FB5	-.12		WAR					TEC	TEH	.560	ZBAZ1	50	H
97	72	.84	0	PCT	26	P2	FB4	-.01		WAR					TEC	TEH	.560	ZBAZ1	50	H
97	72	.79	0	PCT	25	P2	FB5	.05		WAR					TEC	TEH	.560	ZBAZ1	50	H
99	72	.38	0	PCT	14	P2	FB5	-.38		WAR					TEC	TEH	.560	ZBAZ1	50	H
64	73	.18	0	PCT	10	P2	FB5	1.11		WAR					TEC	TEH	.560	ZBAZ1	56	H
94	73	.38	0	PCT	18	P2	FB2	-1.92		WAR					TEC	TEH	.560	ZBAZ1	52	H
94	73	.55	0	PCT	23	P2	FB4	-1.03		WAR					TEC	TEH	.560	ZBAZ1	52	H
102	73	.40	0	PCT	19	P2	FB4	-1.12		WAR					TEC	TEH	.560	ZBAZ1	52	H
106	73	.27	0	PCT	15	P2	FB4	1.43		WAR					TEC	TEH	.560	ZBAZ1	52	H
116	73	.36	0	PCT	17	P2	FB4	1.50		WAR					TEC	TEH	.560	ZBAZ1	52	H
105	74	.42	0	PCT	19	P2	FB5	1.25		WAR					TEC	TEH	.560	ZBAZ1	52	H
58	75	.11	0	PCT	6	P2	FB7	1.14	.00	WAR					TEC	TEH	.560	ZBAZ1	54	H
94	75	.74	0	PCT	23	P2	FB5	-1.02		WAR					TEC	TEH	.560	ZBAZ1	50	H
96	75	.69	0	PCT	23	P2	FB5	-1.20		WAR					TEC	TEH	.560	ZBAZ1	50	H
108	75	.31	0	PCT	12	P2	FB4	-.73		WAR					TEC	TEH	.560	ZBAZ1	50	H
110	75	.19	0	PCT	9	P2	FB6	.80		WAR					TEC	TEH	.560	ZBAZ1	50	H
114	75	.39	0	PCT	15	P2	FB3	.78		WAR					TEC	TEH	.560	ZBAZ1	50	H
114	75	.70	0	PCT	22	P2	FB5	-1.04		WAR					TEC	TEH	.560	ZBAZ1	50	H
114	75	.27	0	PCT	11	P2	FB7	1.35		WAR					TEC	TEH	.560	ZBAZ1	50	H
57	76	.89	0	PCT	27	P2	FB5	1.47		WAR					TEC	TEH	.560	ZBAZ1	54	H
92	77	.75	0	PCT	27	P2	FB5	-1.49		WAR					TEC	TEH	.560	ZBAZ1	52	H
94	77	.58	0	PCT	24	P2	FB5	-1.17		WAR					TEC	TEH	.560	ZBAZ1	52	H
106	77	.50	0	PCT	22	P2	FB5	-.92		WAR					TEC	TEH	.560	ZBAZ1	52	H
112	77	.78	0	PCT	28	P2	FB4	-.73		WAR					TEC	TEH	.560	ZBAZ1	52	H
112	77	.38	0	PCT	18	P2	FB5	.82		WAR					TEC	TEH	.560	ZBAZ1	52	H
51	78	.31	0	PCT	16	P2	FB4	-.97		WAR					TEC	TEH	.560	ZBAZ1	52	H
89	78	.44	0	PCT	20	P2	FB4	-1.01		WAR					TEC	TEH	.560	ZBAZ1	52	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
101	78	.38	0	PCT	18	P2	FB4	1.11		WAR					TEC	TEH	.560	ZBAZ1	52	H
111	78	.43	0	PCT	20	P2	FB5	-1.27		WAR					TEC	TEH	.560	ZBAZ1	52	H
76	79	.25	0	PCT	11	P2	FB4	-1.36		WAR					TEC	TEH	.560	ZBAZ1	50	H
78	79	.26	0	PCT	10	P2	FB5	-.65		WAR					TEC	TEH	.560	ZBAZ1	50	H
81	80	.21	0	PCT	9	P2	FB2	-1.25		WAR					TEC	TEH	.560	ZBAZ1	50	H
95	80	.28	0	PCT	12	P2	FB4	1.46		WAR					TEC	TEH	.560	ZBAZ1	50	H
49	82	.35	0	PCT	17	P2	FB5	.69		WAR					TEC	TEH	.560	ZBAZ1	48	H
86	83	.24	0	PCT	10	P2	FB4	-1.74		WAR					TEC	TEH	.560	ZBAZ1	46	H
110	83	.11	0	PCT	5	P2	FB4	1.28		WAR					TEC	TEH	.560	ZBAZ1	50	H
92	87	.38	0	PCT	16	P2	FB4	.62		WAR					TEC	TEH	.560	ZBAZ1	46	H
108	87	.32	0	PCT	13	P2	FB4	-.65		WAR					TEC	TEH	.560	ZBAZ1	46	H
39	88	.22	0	PCT	10	P2	FB4	-.61		WAR					TEC	TEH	.560	ZBAZ1	46	H
65	88	.44	0	PCT	17	P2	FB4	1.50		WAR					TEC	TEH	.560	ZBAZ1	46	H
106	89	.30	0	PCT	15	P2	FB5	-1.57		WAR					TEC	TEH	.560	ZBAZ1	48	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
68	53	.14	0	PCT	7	P2	FB4	-1.82		WAR					TEC	TEH	.560	ZBAZ1	70	H
75	54	.16	0	PCT	7	P2	FB4	-1.08		WAR					TEC	TEH	.560	ZBAZ1	70	H
95	54	.12	0	PCT	5	P2	FB4	1.52		WAR					TEC	TEH	.560	ZBAZ1	70	H
63	58	.55	0	PCT	20	P2	FB5	.98		WAR					TEC	TEH	.560	ZBAZ1	62	H
82	59	.22	0	PCT	10	P2	FB5	-.67		WAR					TEC	TEH	.560	ZBAZ1	62	H
86	59	.30	0	PCT	13	P2	FB3	1.08		WAR					TEC	TEH	.560	ZBAZ1	62	H
86	59	.37	0	PCT	15	P2	FB5	-1.12		WAR					TEC	TEH	.560	ZBAZ1	62	H
90	59	.24	0	PCT	11	P2	FB3	.70		WAR					TEC	TEH	.560	ZBAZ1	62	H
96	59	.39	0	PCT	16	P2	FB4	1.14		WAR					TEC	TEH	.560	ZBAZ1	62	H
100	59	.23	0	PCT	10	P2	FB4	-1.12		WAR					TEC	TEH	.560	ZBAZ1	62	H
100	59	.12	0	PCT	6	P2	FB6	1.70		WAR					TEC	TEH	.560	ZBAZ1	62	H
69	60	.28	0	PCT	12	P2	FB4	-.64		WAR					TEC	TEH	.560	ZBAZ1	62	H
73	60	.32	0	PCT	13	P2	FB4	-.58		WAR					TEC	TEH	.560	ZBAZ1	62	H
75	60	.24	0	PCT	11	P2	FB4	-.62		WAR					TEC	TEH	.560	ZBAZ1	62	H
77	60	.33	0	PCT	14	P2	FB4	-.56		WAR					TEC	TEH	.560	ZBAZ1	62	H
79	60	.14	0	PCT	7	P2	FB4	-.59		WAR					TEC	TEH	.560	ZBAZ1	62	H
83	60	.36	0	PCT	15	P2	FB4	-.58		WAR					TEC	TEH	.560	ZBAZ1	62	H
85	60	.69	0	PCT	23	P2	FB4	-1.06		WAR					TEC	TEH	.560	ZBAZ1	62	H
95	60	.40	0	PCT	16	P2	FB4	-.76		WAR					TEC	TEH	.560	ZBAZ1	62	H
76	61	.30	0	PCT	15	P2	FB5	-1.29		WAR					TEC	TEH	.560	ZBAZ1	64	H
80	61	.23	0	PCT	12	P2	FB5	-.92		WAR					TEC	TEH	.560	ZBAZ1	64	H
86	61	.26	0	PCT	12	P2	FB5	-1.73		WAR					TEC	TEH	.560	ZBAZ1	70	H
94	61	.29	0	PCT	12	P2	FB5	-1.41		WAR					TEC	TEH	.560	ZBAZ1	70	H
94	61	.17	0	PCT	8	P2	FB6	-.65		WAR					TEC	TEH	.560	ZBAZ1	70	H
96	61	.29	0	PCT	15	P2	FB5	-1.67		WAR					TEC	TEH	.560	ZBAZ1	64	H
98	61	.27	0	PCT	12	P2	FB6	-.75		WAR					TEC	TEH	.560	ZBAZ1	70	H
100	61	.38	0	PCT	15	P2	FB6	.52		WAR					TEC	TEH	.560	ZBAZ1	62	H
110	61	.81	0	PCT	25	P2	FB4	-1.24		WAR					TEC	TEH	.560	ZBAZ1	62	H
114	61	.35	0	PCT	15	P2	FB6	1.18		WAR					TEC	TEH	.560	ZBAZ1	70	H
85	62	.21	0	PCT	10	P2	FB6	-1.74		WAR					TEC	TEH	.560	ZBAZ1	70	H
99	62	.14	0	PCT	7	P2	FB7	.73		WAR					TEC	TEH	.560	ZBAZ1	70	H
82	63	.18	0	PCT	9	P2	FB5	-1.69		WAR					TEC	TEH	.560	ZBAZ1	62	H
102	63	.07	0	PCT	4	P2	FB7	1.73		WAR					TEC	TEH	.560	ZBAZ1	62	H
110	63	.16	0	PCT	8	P2	FB7	1.72		WAR					TEC	TEH	.560	ZBAZ1	62	H
65	64	.08	0	PCT	4	P2	FB4	1.60		WAR					TEC	TEH	.560	ZBAZ1	62	H
69	64	.23	0	PCT	10	P2	FB4	1.29		WAR					TEC	TEH	.560	ZBAZ1	62	H
95	64	.45	0	PCT	18	P2	FB5	-1.51		WAR					TEC	TEH	.560	ZBAZ1	62	H
101	64	.38	0	PCT	16	P2	FB5	-1.34		WAR					TEC	TEH	.560	ZBAZ1	62	H
84	65	.24	0	PCT	11	P2	FB5	-1.63		WAR					TEC	TEH	.560	ZBAZ1	62	H
104	65	.27	0	PCT	12	P2	FB4	1.18		WAR					TEC	TEH	.560	ZBAZ1	62	H
108	65	.34	0	PCT	14	P2	FB4	-1.17		WAR					TEC	TEH	.560	ZBAZ1	62	H
108	65	.28	0	PCT	12	P2	FB5	-1.23		WAR					TEC	TEH	.560	ZBAZ1	62	H
33	66	.11	0	PCT	5	P2	FB5	1.80		WAR					TEC	TEH	.560	ZBAZ1	62	H
75	66	.35	0	PCT	14	P2	FB4	-1.17		WAR					TEC	TEH	.560	ZBAZ1	62	H
66	67	.17	0	PCT	8	P2	FB5	-.55		WAR					TEC	TEH	.560	ZBAZ1	70	H
84	67	.34	0	PCT	15	P2	FB5	-1.34		WAR					TEC	TEH	.560	ZBAZ1	66	H
88	67	.16	0	PCT	9	P2	FB4	.77		WAR					TEC	TEH	.560	ZBAZ1	66	H
90	67	.14	0	PCT	7	P2	FB6	-.69		WAR					TEC	TEH	.560	ZBAZ1	66	H
96	67	.26	0	PCT	12	P2	FB4	1.59		WAR					TEC	TEH	.560	ZBAZ1	66	H
96	67	.23	0	PCT	11	P2	FB6	-.78		WAR					TEC	TEH	.560	ZBAZ1	66	H
ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L
110	67	.35	0	PCT	15	P2	FB4	-.76		WAR					TEC	TEH	.560	ZBAZ1	66	H
61	68	.07	0	PCT	4	P2	FB5	.82		WAR					TEC	TEH	.560	ZBAZ1	66	H
93	68	.17	0	PCT	9	P2	FB5	-1.31		WAR					TEC	TEH	.560	ZBAZ1	66	H
105	68	.24	0	PCT	11	P2	FB6	-1.79		WAR					TEC	TEH	.560	ZBAZ1	66	H
107	68	.30	0	PCT	14	P2	FB5	-.94		WAR					TEC	TEH	.560	ZBAZ1	66	H
109	68	.28	0	PCT	13	P2	FB5	.87		WAR					TEC	TEH	.560	ZBAZ1	66	H
78	69	.28	0	PCT	13	P2	FB5	-1.27		WAR					TEC	TEH	.560	ZBAZ1	66	H
87	70	.31	0	PCT	16	P2	FB5	1.29		WAR					TEC	TEH	.560	CBAC1	68	H
93	70	.33	0	PCT	17	P2	FB5	-.88		WAR					TEC	TEH	.560	CBAC1	68	H
90	71	.18	0	PCT	11	P2	FB4	-1.65		WAR					TEC	TEH	.560	CBAC1	68	H
77	72	.22	0	PCT	11	P2	FB4	-.62		WAR					TEC	TEH	.560	ZBAZ1	66	H
82	73	.17	0	PCT	9	P2	FB5	1.68		WAR					TEC	TEH	.560	ZBAZ1	66	H
86	73	.43	0	PCT	18	P2	FB5	1.66		WAR					TEC	TEH	.560	ZBAZ1	66	H
90	73	.23	0	PCT	11	P2	FB5	1.79		WAR					TEC	TEH	.560	ZBAZ1	66	H
104	73	.15	0	PCT	8	P2	FB4	1.41		WAR					TEC	TEH	.560	ZBAZ1	66	H
93	74	.29	0	PCT	16	P2	FB4	-1.13		WAR					TEC	TEH	.560	CBAC1	68	H
62	77	.38	0	PCT	17	P2	FB5	-1.25		WAR					TEC	TEH	.560	ZBAZ1	66	H
63	88	.07	0	PCT	2	P2	FB4	-1.19		WAR					TEC	TEH	.560	CBAC1	80	H
66	93	.07	0	PCT	6	P2	05H	.59		WAR					TEC	TEH	.560	CBAC1	80	H
33	104	.36	0	PCT	20	P2	04H	-1.41	.00	WAR					TEC	TEH	.560	CBAC1	104	H
29	124	.22	0	PCT	11	P2	04H	-1.53		WAR					TEC	TEH	.560	CBAC1	108	H

ROW	COL	VOLTS	DEG	IND	PER	CHN	LOCN	INCH1	INCH2	UTIL1	UTIL2	CRLEN	CRWID	CEG	BEGT	ENDT	PDIA	PTYPE	CAL	L	
34	7	.77	144	PCT	18	2	TSH	.21	.00			.21	.25	42	01H	TEH	.560	ZYAXP	20	H	
31	8	1.57	98	PCT	28	66	TSH	.14	.00			.23	.39	64	01H	TEH	.560	ZYAXP	20	H	
58	41	.11	0	PCT	6	P2	FB5	1.32		WAR						TEH	TEC	.560	ZBAZ1	71	C
68	55	.20	0	PCT	6	P2	FB6	.98		WAR						TEH	TEC	.560	ZBAZ1	73	C
103	56	.16	0	PCT	8	P2	FB4	-.81		WAR						TEC	TEH	.560	ZBAZ1	75	C
72	57	.18	0	PCT	9	P2	FB4	-1.13		WAR						TEH	TEC	.560	ZBAZ1	75	C
51	60	.16	0	PCT	5	P2	FB5	1.28		WAR						TEH	TEC	.560	ZBAZ1	75	C
4	61	.26	0	PCT	9	P45	07C	-1.71				.18	.21	35	07C	06C	.560	ZYAXP	123	C	
4	61	.20	90	SVI		3	07C	-1.60	.00	LPI	OR				06C	07C	.560	ZRS3C	125	C	
6	61	.44	266	PCT	8	182	07C	-1.98				.15	.20	34	07C	06C	.560	ZYAXP	121	C	
6	61	.33	102	SVI		3	07C	-1.76	.00	LPI	OR				06C	07C	.560	ZRS3C	125	C	
7	62	.86	0	PCT	23	P43	07C	-1.55	.00			.12	.32	53	07C	06C	.560	ZYAXP	121	C	
7	62	.80	87	SVI		3	07C	-1.55	.00	LPI	OR				06C	07C	.560	ZRS3C	125	C	
92	65	.12	0	PCT	6	P2	FB4	-1.05		WAR						TEH	TEC	.560	ZBAZ1	63	C
3	66	.16	0	PCT	6	P33	07C	-1.84	.00			.15	.35	58	07C	06C	.560	ZYAXP	127	C	
3	66	.17	77	SVI		3	07C	-1.85		LPI	OR				06C	07C	.560	ZRS3C	129	C	
47	68	.15	0	PCT	7	P2	FB5	-1.09		WAR						TEH	TEC	.560	ZBAZ1	61	C
97	72	.20	0	PCT	9	P2	FB4	.00		WAR						TEH	TEC	.560	ZBAZ1	79	C
97	72	.20	0	PCT	9	P2	FB5	.00		WAR						TEH	TEC	.560	ZBAZ1	79	C
98	73	.23	0	PCT	10	P2	FB4	.91		WAR						TEH	TEC	.560	ZBAZ1	77	C
87	74	.30	0	PCT	14	P2	FB4	1.20		WAR						TEH	TEC	.560	ZBAZ1	59	C
56	75	.29	0	PCT	11	P2	FB5	-1.03		WAR						TEH	TEC	.560	ZBAZ1	57	C
89	78	.40	0	PCT	16	P2	FB5	-.53		WAR						TEH	TEC	.560	ZBAZ1	55	C
100	79	.13	0	PCT	6	P2	FB7	.86		WAR						TEH	TEC	.560	ZBAZ1	53	C
67	80	.19	0	PCT	8	P2	FB7	2.15		WAR						TEH	TEC	.560	ZBAZ1	53	C
93	80	.24	0	PCT	9	P2	FB6	-.52		WAR						TEH	TEC	.560	ZBAZ1	53	C
97	80	.18	0	PCT	6	P2	FB7	1.55		WAR						TEH	TEC	.560	ZBAZ1	53	C
99	80	.52	0	PCT	18	P2	FB4	-.95		WAR						TEH	TEC	.560	ZBAZ1	53	C
99	80	.36	0	PCT	14	P2	FB7	2.02		WAR						TEH	TEC	.560	ZBAZ1	53	C
107	80	.29	0	PCT	11	P2	FB6	-.64		WAR						TEH	TEC	.560	ZBAZ1	53	C
88	81	.23	0	PCT	11	P2	FB5	1.56		WAR						TEH	TEC	.560	ZBAZ1	55	C
96	81	.36	0	PCT	14	P2	FB5	.89		WAR						TEH	TEC	.560	ZBAZ1	55	C
91	82	.22	0	PCT	10	P2	FB4	1.26		WAR						TEH	TEC	.560	ZBAZ1	55	C
97	82	.12	0	PCT	5	P2	FB3	.46		WAR						TEH	TEC	.560	ZBAZ1	55	C
112	83	.29	0	PCT	11	P2	FB4	1.29		WAR						TEH	TEC	.560	ZBAZ1	53	C
112	83	.18	0	PCT	8	P2	FB5	.79		WAR						TEH	TEC	.560	ZBAZ1	53	C
76	85	.19	0	PCT	9	P2	FB4	.81		WAR						TEH	TEC	.560	ZBAZ1	55	C
77	86	.25	0	PCT	11	P2	FB5	-1.68		WAR						TEH	TEC	.560	ZBAZ1	55	C
85	86	.25	0	PCT	11	P2	FB5	-1.55		WAR						TEH	TEC	.560	ZBAZ1	55	C
87	90	.20	0	PCT	10	P2	FB4	-.53		WAR						TEH	TEC	.560	ZBAZ1	51	C
59	92	.32	0	PCT	12	P2	FB4	1.56		WAR						TEH	TEC	.560	ZBAZ1	45	C
45	98	.24	0	PCT	12	P2	FB5	-1.39		WAR						TEH	TEC	.560	ZBAZ1	39	C
15	142	.19	0	PCT	8	P2	07H	.62		WAR						TEH	TEC	.560	ZBAZ1	21	C