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W3F1-2010-0031

May 13, 2010

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

SUBJECT: 180-Day Steam Generator Tube Inspection Report
for the 16TH Refueling Outage
Waterford Steam Electric Station, Unit 3
Docket No. 50-382
License No. NPF-38

Dear Sir or Madam:

Attached is the 180-Day RF16 Steam Generator Tube Inspection Report for Entergy Operations, Inc (EOI) Waterford Steam Electric Station Unit 3. This report is being submitted in accordance with Technical Specification 6.9.1.5 and provides the complete results of Refueling Outage 16 Steam Generator Tube Inspection.

There are no new commitments contained in this letter.

Please contact William J. Steelman at (504) 739-6685 if you have questions regarding this information.

Sincerely,

WJS/RJP/ssf

Attachments

1. 180-Day Steam Generator Tube Inspection Report for the 16TH Refueling Outage
2. Additional Tables Relative to the 16TH Refueling Outage Steam Generator Tube Inspection Report

A001
NRR

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Attachment 1
To
W3F1-2010-0031

180-Day Steam Generator Tube Inspection Report for the 16TH Refueling Outage

RF16 180-Day Special Report

Waterford 3 began RF16 with 8031 tubes in service in SG31 and 8133 tubes in service in SG32. Waterford 3 (WF3) Technical Specification (TS) 6.9.1.5 requires Entergy Operations to submit a 180 day report to the NRC that outlines the details of the steam generator (SG) tubing inspections that were performed during the reporting period. The report shall include:

6.9.1.5

A. The scope of inspections performed on each steam generator.
B. Active degradation mechanisms found.
C. Nondestructive examination techniques utilized for each degradation mechanism.
D. Location, orientation (if linear), and measured sizes (if available) of service induced indications.
E. Number of tubes plugged during the inspection outage for each active degradation mechanism.
F. Total number and percentage of tubes plugged to date.
G. The results of condition monitoring, including the results of tube pulls and in-situ testing and assessment of accident-induced leakage from all tubesheet indications.
H. Effective plugging percentage for all plugging in each generator.

Reference:

W3F1-2006-0070 dated 12-20-06 to U.S. NRC, Entergy Actions to Address RF14 Batwing Failures [ADAMS Accession Number ML063600109]

The operating period for this report includes one outage, a refueling inspection (RF16) in November 2009.

DESIGN

The Waterford 3 Model 70 re-circulating steam generators were designed and fabricated by Nuclear Steam System Supplier Combustion Engineering (CE), Inc. in accordance with ASME Code, Section III NB for Class I vessels. The Waterford 3 steam generators each consist of 9,350 high temperature mill annealed INCONEL® 600 U-tubes arranged in a one-inch inner diameter triangular pitch pattern representing 103,574 ft² of heat transfer area. The U-tubes are 3/4" O.D. by 0.048" nominal wall thickness explosively expanded the full depth of the tube sheet (CE's Explansion Process) and welded to the primary cladding. The secondary tube bundle support structure consists of carbon steel eggcrates. The secondary supports are arranged in the following order:

- seven full horizontal eggcrate supports (01H – 07H, 01C – 07C)
- three horizontal partial eggcrates supports (08H-10H, 08C – 10C)
- two anti-vibration straps (hot and cold batwings, BW1 and BW9)
- seven vertical straps (BW2 through BW8)

A. The Scope of Inspections Performed on Each Steam Generator.

The RF16 initial inspection plan included:

1. 100% full length 0.600" bobbin examination (Rows 3 and up), 100% 0.600" bobbin examination of hot and cold leg straight sections in Rows 1 and 2

2. 100% +Point™ inspection of all eggcrate distorted signal indication (DSI) signals

3. 100% +Point inspection of all >2V dents at eggcrates (based on RF15 bobbin data)

4. 25% +Point inspection at dented diagonal bar and vertical strap locations >2V

5. 25% +Point inspection at freespan dings >5V

6. 100% hot leg TTS +Point inspection in each SG from 3 inches above to 12 inches below TTS

7. 100% Row 1 and 2 small radius U-bend +Point inspection in each SG using a mid-range +Point coil

8. 100% +Point inspection of all newly reported indications at diagonal bar and vertical straps (confirmation of mechanism)

9. 100% +Point inspection of historical %TW indications at diagonal bar and vertical straps

10. 100% +Point inspection special interest testing including;

    a. freespan signals unresolved in history or showing change

    b. any bobbin signal suggestive of tube wear at eggcrate structures

    c. any bobbin signal suggestive of axial degradation within the cold leg tubesheet region

    d. possible loose part (PLP) or loose part indication (LPI) signals reported either by bobbin or MPRC®; all surrounding tube locations will also be inspected with MPRC

    e. Three tube deep peripheral cold leg top of tubesheet inspection with +Point coil from 3 inches above to 3 inches below top of tubesheet (PLP concern)

11. Plug visual examination

    a. 100% of the installed plugs were visually examined for signs of leakage.

12. Secondary side inspection and FOSAR

The inspection plan was developed to specifically address the areas of active degradation as well as areas expected to be affected based on recent industry experience as well as experience from the Spring 2008 Waterford 3 inspection and recent industry inspection results. These included:

a. FOSAR of annulus region at the top of the tubesheet,
b. Bottom up visual of the batwings in the central stay cavity.
c. Video probe inspection of the batwings in the central stay cavity (45-degree), and
d. Visual inspection of the steam drum region including moisture separators and feed ring.

B. Active Degradation Mechanisms Found.

- Axial ODSCC at non-dented eggcrate intersections
- Longitudinal (axial) ODSCC at batwing and vertical strap structures
- Axial ODSCC in the hot leg sludge pile freespan region and expansion transition region
- Circumferential ODSCC at the hot leg TTS expansion transition
- Axial PWSCC at the hot leg expansion transition and expanded tubesheet region
- Circumferential PWSCC at the hot leg TTS expansion transition and expanded tubesheet region
- Wear at eggcrate, diagonal bar, and vertical strap structures
- Tube wear due to foreign objects
- Freespan axial ODSCC
- Batwing Degradation
- Flow Accelerated Corrosion of Feedring Distribution Box Tee Vent

C. Nondestructive Examination Techniques Utilized for Each Degradation Mechanism.

Table C-1 Techniques

Mechanism Location	Probe	Detection ETSS	Sizing ETSS
Loose Part Wear	Bobbin	27091.2 Rev. 0	27091.2 Rev. 0
Wear at Tube Support Structures (TSP & AVB)	Bobbin	96004.1 Rev. 12	96004.1 Rev. 12
Axial ODSCC at Dented Locations ≤5.0 Volts in the Freespan	Bobbin	24013.1 Rev. 2	N/A
Axial ODSCC in the Freespan, Sludge Pile and Eggcrate Support Plates without or with Dents <2.0 Volts	Bobbin	28413 Rev. 2	N/A
Axial ODSCC at Non-Dented EC and Sludge Pile	Bobbin	96008.1 Rev. 14	96008.1 Rev. 14
Pitting in the Presence of Copper	Bobbin	96005.2 Rev. 9	96005.2 Rev. 9
Axial PWSCC at Dented Support Structures <2.0 Volts	Bobbin	96012.1 Rev. 12	N/A
Wear at Tube Support Structures (TSP & AVB)	+Point	96910.1 Rev. 10	96910.1 Rev. 10
Volumetric at Freespan Regions	+Point	21998.1 Rev. 4	21998.1 Rev. 4
Axial ODSCC at Support Structures, Freespan, Sludge Pile and Tubesheet Crevice	+Point	21409.1 Rev. 6	CEOG-1151 Or Regression

Table C-1 Techniques (cont)

Mechanism Location	Probe	Detection ETSS	Sizing ETSS
Axial ODSCC in the Freespan, Sludge Pile and Eggcrate Support Plates	+Point	28425 Rev. 2	28432 Rev. 2
Circ. ODSCC at Expansion Transitions	+Point	21410.1 Rev. 6	EPRI TR-107197
Circ. PWSCC at Expansion Transition	+Point	20510.1 Rev. 7	20510.1 Rev. 7
Axial PWSCC at Expansion Transition	+Point	20511.1 Rev. 8	20511.1 Rev. 8
Circ. ODSCC at Dented Support Plates	+Point	22842.1 Rev. 4	CEOG-1151 Or Regression
Axial PWSCC at Dented Locations	+Point	96703.1 Rev. 17	96703.1 Rev. 17
Axial ODSCC at Dented Support Locations	+Point	22401.1 Rev. 4	22401.1 Rev. 4
Axial/Circ. PWSCC at Low Row U-Bend Locations	+Point	96511.2 Rev. 16	96511.2 Rev. 16
Axial ODSCC at Low Row U-Bend Locations	+Point	21409.1 Rev. 6	CEOG-1151
Circ. ODSCC at Low Row U-Bend Locations	+Point	21410.1 Rev. 6	EPRI TR-107197

CEOG-1151 – Use of this report for sizing SCC at dented intersections will be conservative as the measured flaw amplitude will include dent influence.

D. Location, Orientation (if linear), and Measured Sizes (if available) of Service Induced Indications.

See Attachment 2 for the following Tables

Table D-1 "SG31 Service Induced Indications- Crack Indications– RF16"
Table D-2 "SG32 Service Induced Indications-Crack Indications – RF16"
Table D-3 "SG31 Service Induced Indications- Wear at Supports – RF16"
Table D-4 "SG32 Service Induced Indications- Wear at Supports – RF16"
Table D-5 "SG31&SG32 Service Induced Indications – Historical Volumetrics"

E. Number of Tubes Plugged During the Inspection Outage for Each Active Degradation Mechanism.

Table E-1

Tube Status	SG - 31	SG - 32
Tubes inservice prior to RFO16	8031	8133
Total Number of tubes previously removed from service	1319	1217
Repair Candidates from RFO16:		
Hot Leg Top of Tubesheet Axial Indications (Above TTS)	0	0
Hot Leg Top of Tubesheet Circ. Indications (Above TTS)	0	0
Hot Leg Tube Sheet Axial Indications (Within Tubesheet)	2	0
Hot Leg Tube Sheet Circ. Indications (Within Tubesheet)	1	1
Tubesheet with Axial and Circumferential Indications	0	0
Tubesheet and Support Plate with Axial Indications	0	0
Tubesheet Circumferential and Support Plate Axial Indications	0	0
Egg-Crate With Axial Indications	81	35
Batwings With Axial Indication	3	3
Batwings With Axial Indication and Support Plate Axial Indication	0	0
Batwings With Volumetric Indication	0	0
Hot Leg Volumetric Indications	0	0
Cold Leg Volumetric Indications	0	0
Row 1 - Row 2 U-Bend Indications	0	0
Bobbin Percents => 40%	0	1
Customer Decision to Plug	1	0
Customer Decision Preventative (Row 1/Row 2)	0	0
Hot Leg Total Tubes Deplugged and Replugged - Post RFO16	0	0
Cold Leg Total Tubes Deplugged and Replugged - Post RFO16	0	0
Total Candidate Tubes to be Repaired	88	40
Hot Leg 54" Stabilizers Installed During RFO16	0	1
Hot Leg 268" Stabilizers Installed During RFO16	0	0
Hot Leg 384" Stabilizers Installed During RFO16	0	0
Cold Leg 54" Stabilizers Installed During RFO16	0	0
Cold Leg 268" Stabilizers Installed During RFO16	0	0
Cold Leg 384" Stabilizers Installed During RFO16	0	0
Total Repair	**SG - 31**	**SG - 32**
Total Stabilizers Installed - RFO16	0	1
Total Tubes Plugged - Post RFO16	1407	1257
Total SG % Plugged - Post RFO16	15.05%	13.44%
Note: Above Tubesheet is all calls => .01" above. Note: Within Tubesheet is all calls =<.00".		

See Attachment 2 for the following Tables

Table E-2 "SG31 Plugging List – RF16"
Table E-3 "SG32 Plugging List – RF16"

F. Total Number and Percentage of Tubes Plugged to Date.

Table F-1 WF3 Historical Plugging

Year	Outage	EFPY	SG31 Plugs	SG32 Plugs	Total	Cum % Plug	Cumulative Plugging
1985	Pre-		154	169	323	1.7	323
1986	RF01	1.01	0	0	0	1.7	323
1987	RF02	2.08	0	1	1	1.7	324
1989	RF03	3.31	11	8	19	1.8	343
1991	RF04	4.55	161	161	322	3.6	665
1992	RF05	5.83	4	5	9	3.6	674
1994	RF06	7.15	4	2	6	3.6	680
1995	RF07	8.52	15	4	19	3.7	699
1997	RF08	9.90	29	26	55	4.0	754
1999	RF09	11.02	12	10	22	4.2	776
2000	RF10	12.37	28	38	66	4.5	842
2002	RF11	13.70	26	10	36	4.7	878
2003	RF12	15.18	127	50	177	5.6	1055
2005	RF13	16.68	247	223	470	8.2	1525
2006	RF14	18.12	358	460*	818	12.5	2343
2008	RF15	19.41	143	51	194	13.6	2536
2009	RF16	20.79	88	40	128	14.2	2664
Total Plugged to Date			**1407**	**1257**			**2664**
Percent Plugged to Date			**15.05**	**13.44**			

*** Includes tube plugged on one end**

G. The Results of Condition Monitoring, Including the Results of Tube Pulls and In-situ Testing and Assessment of Accident-Induced Leakage from all Tubesheet Indications.

Waterford 3 did not perform any tube pulls and one in-situ test was required during RF16.

As part of Waterford 3's adherence to perform In-situ Screening in accordance with EPRI, TR-1014983, "Steam Generator In-Situ Pressure Test Guidelines", Rev. 3, all indication identified were screened with one test required. The flaw was taken to 5600 psig pressure with zero leakage. The tube R18 C112 is located in SG# 1. The condition was entered into Entergy's corrective action program.

> *CR-WF3-2009-06592*
> *Flaw found in SG #1 R18 C112 near 07H support requires screening and profiling for possible in-situ pressure testing. This flaw is inspected with the Appendix I technique of the SG Program Guidelines. In-situ testing is contingency for RF16 and can be completed under the SG Inspection and Repairs WO*

Based on the Waterford 3 RF16 inspection results and in-situ pressure testing, no tubes contained indications which represented a challenge to structural or leakage integrity and all condition monitoring requirements are satisfied. Structural and leakage integrity was established by analysis and through comparison of past in-situ testing results as well as by comparison of observed flaw parameters against the leaking testing thresholds established by EPRI TR-1014983 Steam Generator In-Situ Pressure Test Guidelines Rev 3.

No primary to secondary leakage is predicted for the eddy current indications observed at RF16 in the event of a postulated SLB event. The relative severity levels of the observed degradation was judged consistent with or bounded by the levels associated with the RF15 inspection, and recent inspections of similar CE SGs.

Only two indications were observed within the tubesheet region. Both were circumferential PWSCC, one in each SG. In SG31 the indication was located at approximately 14 inches below the top of tubesheet, had a maximum +Point amplitude of 0.84 volt in 300 kHz, and had an indicated arc length of 31 degrees. In SG32, the indication was located at the expansion transition, had a maximum +Point amplitude of 0.49 volt in 300 kHz, and had an indicated arc length of 32 degrees. Each indication was below the leakage threshold so the predicted accident induced leakage from these tubesheet indications is zero gpm.

Waterford 3 has a current Plant Specific Leakage limit of 0.375 gallons per minute for an "accident-induced leakage limit" and applies a reduction of 0.1 gallons per minute to this value to provide the basis for the approved tube leakage integrity criteria. The inspection requirements described in TS 6.5.9.c.1 applies an alternate repair criteria which utilized this reduction. The predicted leakage is zero, thus the accident-induced leakage limit is met.

During the Waterford RF16 steam generator tube inspection, no indications exceeding the structural integrity limits for either axial or circumferential degradation (i.e., burst integrity > 3 times normal operating primary to secondary pressure differential across SG tubes) were detected. Therefore, no tubes were identified to contain eddy current indications that could potentially challenge the tube integrity recommendations of NEI 97-06 Revision 2, "Steam Generator Program Guidelines". Similarly, all operational assessment structural and leakage integrity requirements are satisfied at EOC-17 for the degradation mechanisms observed at EOC-16.

One tube in SG31 was plugged due to data quality reasons associated with copper deposits. The location is R106 C148 at the 01H eggcrate location. A 1.21 volt (maximum) copper signal was reported from +Pt. This signal was evaluated and the tube met the condition monitoring criteria.

Foreign Object/Loose Parts Wear

Examinations for loose parts were performed as planned. The PLP indications were re-examined and bounding MPRC exams were performed. No new foreign object associated wear was reported at RF16.

Cold Leg Volumetric Indications

At RF15, in SG31, one tube (R2 C156) was reported with a volumetric signal just above the top of tubesheet. This location was also reported as a volumetric signal at RF14. At RF14, FOSAR showed no evidence of a PLP and the +Point eddy current data showed no evidence of a PLP. A PLP was likely adjacent to this tube at one point in time but is no longer present. At RF14 the indication was sized at 21%TW and left in service. The RF15 +Point amplitude is essentially equal to the RF14 value, and is sized at 26%TW. The RF16 +Point eddy current data again shows no evidence of a PLP. This indication was again left in service. There was no change in signal parameters between RF15 and RF16.

At RF15, in SG32 a volumetric signal (R104 C30) was reported the

approximate mid-span elevation between just above the 07H eggcrate. A review of the bobbin history data shows no change in the signal since 1994. This signal is most likely attributed to a manufacturing artifact, such as a lap. The depth based on sizing with the +Point coil according to ETSS 21998.1 was 19%TW at RF15; there was no change in the signal response at RF16. This indication was left in service.

Secondary Side Inspections

The secondary inspection was performed per the requirements of the Entergy procedure NOECP-257 "Steam Generator Secondary Side Inspections", which includes a full steam drum inspection and feedring.

Entergy committed to performing "augmented" examinations of the batwings. These inspections were completed during RF16.

The inspections were completed concurrently but were documented separately. The secondary side inspections were documented in WO-116193 and WO-116208. The augmented examinations were performed under WO-00153097 and WO-00153098. The augmented examination results were reviewed and evaluated by Engineering. The evaluated results are attached in the Corrective Action Program.

For SG31 the augmented inspection result is documented in CR-WF3-2006-03966 CA-0063.

For SG32 the augmented inspection result is documented in CR-WF3-2006-03966 CA-0064.

Summary results are stated:

CA-0063 Action
This corrective action is to document the results of augmented inspections performed during Refuel 16 of the secondary side of the Steam Generator 31. The augmented inspections will include the upper batwing to wrapper bar welds, inspection of the stay cavity region, and foreign object search and retrieval (FOSAR) of the secondary side.

Summary Response

An inspection of Steam Generator #1 (SG 31) was performed during the Fall 2009 Refuel 16 (RF16) outage to determine if there were any changes in extent of condition or the critical variables that were the basis for the RF14 repair plan, Mid-Cycle 15 (PO 07-01)

and RF15 operational assessments. The visual inspections performed consisted of an upper batwing weld and wrap around bar inspection, diagonal 45 degree through-tube bundle inspection, a bottom-up inspection of the batwings in the stay cylinder region and a Foreign Object Search and Retrieval (FOSAR). All inspection results were satisfactory and met the established acceptance criteria. There were no changes to the expected extent of condition or the critical variables that were the basis for the Refuel-14 repair plan, Mid-Cycle 15 (PO 07-01) and Refuel-15 operational assessment. These assessments still remain valid and bounding. Waterford 3 plans to replace both steam generators during RF17.

The full inspection report is attached to the Corrective Action.

CA-0064 Action
This corrective action is to document the results of augmented inspections performed during Refuel 16 of the secondary side of the Steam Generator 32. The augmented inspections will include the upper batwing to wrapper bar welds, inspection of the stay cavity region, and foreign object search and retrieval (FOSAR) of the secondary side.

Summary Response

An inspection of Steam Generator #2 (SG32) was performed during the Fall 2009 Refuel 16 (RF16) outage to determine if there were any changes in extent of condition or the critical variables that were the basis for the mitigating actions taken in Refuel 14, Cycle 15 Operational Assessment, and Refuel 15. The visual inspections performed consisted of an upper batwing weld and wrap around bar inspection, diagonal 45? Through-Tube Bundle Inspection, a Bottom-Up Inspection of the batwings in the central stay cavity region, and a Foreign Object Search and Retrieval (FOSAR). All inspection results met the established acceptance criteria. There were no changes to the extent of condition or the critical variables that were the basis for the mitigating actions taken in RF14, Cycle 15 Operational Assessment, and RF15. Additionally, the assessments performed in RF14, the October 2007 Mid-Cycle 15 outage (PO-07-01), and RF15 remains valid and bounding. Waterford 3 plans to replace both steam generators during RF17 (Spring 2011) outage.

The full inspection report is attached to the Corrective Action.

Inspection per NOECP-257 "Steam Generator Secondary Side Inspections"

During the feed ring inspections of Steam Generator No.1 per NOECP 257 and W/O 116193 it was discovered that weld between the Elbow Tee Assembly and the feed ring distribution box is broken. The elbow tee assembly is completely broken off. The elbow tee assembly is visible and is resting between the outer shell of the steam generator and the shroud around the tubes. Discovery of missing Vent –Tee entered into the Corrective Action Program as CR-WF3-2009-06504.

The cause of the failure was determined to be Flow Accelerated Corrosion (FAC). As an extent of condition effort, SG32 was drained and re-examined.

NDE measurements were made of the distribution box and feed rings of both Steam Generators. The inspection results were entered into the Corrective Action Program under Condition Reports CR-WF3-2009-06622 and CR-WF3-2009-06629. The conditions were evaluated by Engineering and Westinghouse. Operation of the SG with the missing vent tee was evaluated found to be acceptable for a cycle of operation. The issue remains in the Corrective Action Program as a Significantly Degraded Non-Conforming (SDNC) item. The missing vent tee was located in the down comer region and retrieved. There was no contact with SG tubing.

A small sized screw (size M2 x 3mm) from a communications belt was noted as missing and was assumed to be left in SG32. The condition was entered into the corrective action program as condition report, CR-WF3-2009-06206. The condition was evaluated by Engineering and Westinghouse as acceptable for a cycle of operation.

FOSAR in each Steam Generator was completed in both the annulus region and the blow down tube lane. These inspections revealed no loose parts.

H. Effective Plugging Percentage for all Plugging in Each Generator.

Table H-1
Effective Plugging Percentage

Generator	# Plugged	% Plugged
SG31	1407	15.05%
SG32	1257	13.44%

Attachment 2
To
W3F1-2010-0031

Additional Tables
Relative to the 16TH Refueling Outage
Steam Generator Tube Inspection Report

Table D-1
SG31Service Induced Indications - Crack Indications - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Locn	Inch1	Inch2	CrLen	CrWid	Ceg
1	31	7	13	0.14	101	SAI	01H	-0.70		0.18	0.32	48
2	31	28	18	0.25	104	SAI	03H	0.87		0.24	0.37	56
3	31	9	19	0.24	100	SAI	07H	0.54		0.28	0.33	50
4	31	13	23	0.29	89	SAI	03H	1.01	1.22	0.20	0.72	109
5	31	11	29	0.22	84	SAI	03H	-0.38		0.15	0.33	50
6	31	83	31	0.11	76	SAI	08H	0.79		0.27	0.31	47
7	31	93	31	0.16	138	SAI	02H	0.93		0.21	0.28	43
8	31	90	36	0.17	146	SAI	05H	0.94		0.24	0.39	59
9	31	60	38	0.24	61	SAI	BW5	-0.93		0.39	0.31	47
10	31	62	40	0.16	92	SAI	05H	0.88		0.27	0.31	47
11	31	17	41	0.17	84	SAI	06H	0.90		0.38	0.29	45
12	31	59	41	0.11	81	SAI	07H	0.41		0.64	0.37	56
13	31	10	42	0.20	96	SAI	07H	0.59		0.90	0.28	43
14	31	5	43	0.33	92	SAI	06H	0.57		1.79	0.34	51
15	31	66	44	0.29	108	SAI	04H	0.86		0.29	0.44	67
16	31	66	44	0.11	83	SAI	05H	0.86		0.24	0.20	31
17	31	5	47	0.40	95	SAI	07H	0.84		0.45	0.29	45
18	31	6	50	0.21	96	SAI	05H	-0.49		0.18	0.29	45
19	31	88	50	0.22	93	SAI	03H	0.94		0.14	0.41	63
20	31	3	51	0.39	108	SAI	06H	0.88		0.70	0.31	47
21	31	88	52	0.23	99	SAI	07H	-0.17		0.17	0.27	42
22	31	104	52	0.19	103	SAI	07H	-0.12		0.24	0.53	80
23	31	5	55	0.37	109	SAI	07H	-0.63		0.37	0.32	48
24	31	79	55	0.38	94	SAI	07H	-0.45		0.64	0.35	53
25	31	36	56	0.22	102	SAI	02H	0.99		0.15	0.38	58
26	31	36	56	0.18	109	SAI	04H	0.86		0.15	0.36	55
27	31	9	57	0.29	101	SAI	06H	0.63		0.58	0.32	48
28	31	19	57	0.09	68	SAI	04H	0.96		0.25	0.20	31
29	31	42	58	0.27	51	SAI	04H	0.96		0.18	0.20	31
30	31	72	58	0.21	96	SAI	06H	0.91		0.36	0.28	43
31	31	88	58	0.16	159	SAI	05H	0.91		0.29	0.24	37
32	31	39	59	0.16	97	SAI	05H	-0.42		0.30	0.25	39
33	31	75	59	0.25	115	SAI	05H	-0.13		0.85	0.37	56
34	31	75	59	0.20	111	SAI	08H	0.92		0.45	0.26	40
35	31	99	59	0.22	123	SAI	01H	0.87		0.27	0.35	53
36	31	32	60	0.15	116	SAI	03H	0.88		0.35	0.33	50
37	31	35	61	0.14	60	SAI	04H	0.80		0.21	0.23	35
38	31	17	63	0.20	127	SAI	01H	0.14		0.23	0.42	64
39	31	70	64	0.11	115	SAI	07H	-0.44		0.15	0.32	48
40	31	53	67	0.25	93	SAI	08H	0.86		0.38	0.27	42
41	31	92	68	0.15	105	SAI	02H	-0.31		0.29	0.34	51
42	31	69	71	0.16	100	SAI	05H	0.39		0.17	0.33	50
43	31	52	74	0.14	130	SAI	02H	0.66		0.70	0.39	59
44	31	90	74	0.17	101	SAI	08H	-0.91		0.18	0.27	42
45	31	78	78	0.30	96	SAI	04H	0.92		0.21	0.42	64
46	31	73	79	0.12	92	SAI	02H	0.81		0.34	0.53	80
47	31	85	83	0.18	136	SAI	03H	0.82		0.31	0.52	79
48	31	94	88	0.14	84	SAI	TSH	-0.11	0.03	0.14	0.33	50
49	31	57	93	0.26	106	SAI	06H	-0.11		0.21	0.36	55

Table D-1
SG31Service Induced Indications - Crack Indications - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Locn	Inch1	Inch2	CrLen	CrWid	Ceg
50	31	89	93	0.15	98	SAI	TSH	-0.06	0.05	0.11	0.34	51
51	31	65	97	0.13	96	SAI	06H	0.88		0.28	0.27	42
52	31	118	98	0.12	130	SAI	06H	0.84		0.15	0.37	56
53	31	67	99	0.19	90	SAI	07H	-0.45		0.36	0.28	43
54	31	67	99	0.31	70	SAI	07H	0.57		0.36	0.33	50
55	31	99	99	0.22	73	SAI	04H	-0.04		0.25	0.56	85
56	31	84	102	0.16	102	SAI	07H	0.09		0.15	0.26	40
57	31	95	103	0.15	66	SAI	06H	0.78		0.13	0.23	35
58	31	64	106	0.17	111	SAI	08H	-0.47		0.33	0.31	47
59	31	64	106	0.17	94	SAI	08H	0.11		0.10	0.34	51
60	31	64	106	0.32	101	SAI	08H	0.90		0.23	0.34	51
61	31	98	106	0.16	93	SAI	BW3	0.97	1.09	0.24	0.27	42
62	31	68	108	0.17	85	SAI	07H	0.87		0.28	0.27	42
63	31	18	112	0.23	83	SAI	01H	0.07		0.28	0.49	76
64	31	18	112	0.10	163	SAI	01H	0.39		0.15	0.29	45
65	31	18	112	0.14	59	SAI	07H	-0.81		0.30	0.20	31
66	31	18	112	0.26	56	SAI	07H	-0.17		0.15	0.24	37
67	31	18	112	0.47	93	SAI	07H	0.51		0.80	0.31	47
68	31	51	113	0.87	19	SCI	TSH	-13.67		0.23	0.19	29
69	31	27	115	0.21	105	SAI	01H	0.95		0.27	0.59	90
70	31	109	115	0.06	84	SAI	01H	-0.60		0.18	0.35	53
71	31	109	115	0.29	117	SAI	01H	0.54		0.41	0.36	55
72	31	6	116	0.24	119	SAI	01H	-0.18		0.37	0.40	61
73	31	120	116	0.15	112	SAI	04H	0.26		0.23	0.33	50
74	31	55	117	0.11	95	SAI	01H	-0.12		0.33	0.40	61
75	31	8	118	0.26	96	SAI	07H	0.44		0.73	0.32	48
76	31	80	118	0.17	91	SAI	06H	0.85		0.23	0.29	45
77	31	33	119	0.18	84	SAI	06H	0.84		0.38	0.23	35
78	31	6	122	0.14	108	SAI	01H	-0.65		0.25	0.36	55
79	31	18	122	0.20	88	SAI	07H	-0.46		0.25	0.23	35
80	31	66	122	0.16	105	SAI	04H	-0.73		0.10	0.33	50
81	31	41	123	0.11	65	SAI	06H	0.53		0.81	0.20	31
82	31	46	126	0.20	110	SAI	03H	0.22		0.43	0.21	32
83	31	53	127	0.20	92	SAI	06H	0.93		0.30	0.26	40
84	31	73	129	0.23	79	SAI	04H	-0.51		0.35	0.27	42
85	31	16	130	0.19	65	SAI	07H	-0.64	-0.33	0.24	0.28	43
86	31	69	131	0.16	77	SAI	07H	-0.37		0.31	0.24	37
87	31	81	131	0.13	112	SAI	03H	0.87		0.33	0.42	64
88	31	14	134	0.27	91	SAI	07H	-0.68	-0.40	0.37	0.31	47
89	31	14	134	0.21	87	SAI	07H	0.82	1.08	0.40	0.23	35
90	31	54	134	0.16	69	SAI	07H	0.58	0.68	0.12	0.20	31
91	31	31	135	0.12	96	SAI	02H	0.24		0.32	0.32	48
92	31	85	137	0.32	89	SAI	07H	-0.78		0.46	0.20	31
93	31	119	137	0.28	51	SAI	BW2	-0.82		0.21	0.24	37
94	31	4	140	0.39	85	SAI	07H	0.43		0.41	0.29	45
95	31	6	142	0.12	39	SAI	05H	-0.63	-0.44	0.26	0.26	40
96	31	36	144	0.20	104	SAI	07H	0.55	0.70	0.26	0.34	51
97	31	7	145	0.42	117	SAI	05H	0.10	0.42	0.42	0.39	59
98	31	24	156	0.16	52	SAI	07H	0.82	1.01	0.24	0.25	39

Table D-1
SG31Service Induced Indications - Crack Indications - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Locn	Inch1	Inch2	CrLen	CrWid	Ceg
99	31	26	158	0.17	115	SAI	02H	0.45	0.71	0.45	0.40	61

Table D-2
SG32 Service Induced Indications - Crack Indications - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Locn	Inch1	Inch2	CrLen	CrWid	Ceg
1	32	17	25	0.09	122	SAI	03H	0.64		0.14	0.36	55
2	32	67	33	0.09	5	SAI	02H	0.87		0.15	0.23	35
3	32	46	36	0.14	100	SAI	04H	0.94		0.20	0.46	71
4	32	29	37	0.24	104	SAI	BW5	0.77	1.02	0.25	0.34	51
5	32	9	39	0.29	91	SAI	03H	0.84		0.18	0.44	67
6	32	89	41	0.17	82	SAI	07H	0.64		0.27	0.24	37
7	32	34	42	0.21	68	SAI	BW5	-0.66	-0.27	0.29	0.22	34
8	32	74	44	0.19	148	SAI	04H	0.88		0.20	0.31	47
9	32	53	47	0.18	106	SAI	03H	-0.86		0.17	0.32	48
10	32	53	47	0.11	40	SAI	03H	-0.01		0.15	0.15	22
11	32	53	47	0.07	135	SAI	03H	0.84		0.10	0.19	29
12	32	31	55	0.12	79	SAI	06H	-0.33		0.18	0.23	35
13	32	93	67	0.17	74	SAI	08H	0.86		0.20	0.25	39
14	32	112	68	0.24	68	SAI	08H	0.77		0.30	0.27	42
15	32	85	87	0.38	97	SAI	09H	-0.99		0.70	0.27	42
16	32	91	87	0.12	81	SAI	06H	0.74		0.23	0.24	37
17	32	85	97	0.15	79	SAI	06H	0.72		0.42	0.24	37
18	32	83	103	0.11	107	SAI	02H	-0.68		0.19	0.34	51
19	32	68	104	0.20	82	SAI	01H	-0.54		0.19	0.38	58
20	32	70	104	0.12	116	SAI	04H	0.79		0.27	0.24	37
21	32	79	105	0.20	112	SAI	02H	0.55		0.40	0.40	61
22	32	85	109	0.18	93	SAI	07H	0.92		0.40	0.37	56
23	32	30	114	0.20	99	SAI	06H	0.78		0.51	0.27	42
24	32	13	115	0.22	79	SAI	01H	-0.52		0.19	0.37	56
25	32	13	115	0.10	102	SAI	01H	0.13		0.16	0.34	51
26	32	89	117	0.12	110	SAI	02H	-0.11		0.25	0.33	50
27	32	77	119	0.17	93	SAI	BW4	0.13		0.21	0.34	51
28	32	77	119	0.24	89	SAI	BW4	0.68		0.64	0.35	53
29	32	38	120	0.49	23	SCI	TSH	-0.21	0.05	0.26	0.21	32
30	32	91	123	0.21	127	SAI	03H	-0.79		0.17	0.38	58
31	32	61	127	0.17	124	SAI	04H	0.76		0.45	0.29	45
32	32	73	127	0.05	76	SAI	02H	0.09		0.25	0.25	39
33	32	73	127	0.16	131	SAI	02H	0.81		0.37	0.45	69
34	32	73	127	0.24	131	SAI	04H	0.72		0.52	0.40	61
35	32	75	127	0.15	147	SAI	03H	-0.79		0.20	0.41	63
36	32	46	128	0.19	137	SAI	03H	-0.50		0.35	0.31	47
37	32	46	128	0.14	87	SAI	07H	-0.47		0.30	0.21	32
38	32	14	132	0.21	56	SAI	07H	-0.16		0.19	0.28	43
39	32	30	132	0.13	95	SAI	06H	0.80		0.20	0.27	42
40	32	42	132	0.18	109	SAI	02H	0.11		0.15	0.40	61
41	32	42	132	0.14	127	SAI	02H	0.41		0.25	0.34	51
42	32	13	133	0.22	97	SAI	06H	0.41		0.24	0.28	43
43	32	29	135	0.19	89	SAI	06H	0.80		0.33	0.25	39
44	32	39	139	0.17	94	SAI	04H	0.61		0.18	0.31	47
45	32	30	144	0.16	113	SAI	02H	0.89		0.15	0.28	43
46	32	82	144	0.19	130	SAI	02H	0.76		0.13	0.39	59
47	32	31	149	0.05	113	SAI	05H	-0.33		0.17	0.34	51

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
1	31	20	4	0.13	0	PCT	7	01C	0.50
2	31	41	5	0.30	0	PCT	18	06H	-0.92
3	31	8	6	0.27	0	PCT	12	03H	0.85
4	31	42	6	0.33	0	PCT	19	BW5	-0.37
5	31	5	7	0.25	0	PCT	8	07H	-0.47
6	31	15	9	0.28	0	PCT	12	03H	0.87
7	31	74	14	0.24	0	PCT	16	BW1	-1.95
8	31	74	14	0.47	0	PCT	23	BW4	0.94
9	31	19	15	0.30	0	PCT	9	BW5	-0.95
10	31	19	15	0.29	0	PCT	9	BW5	0.72
11	31	61	15	0.43	0	PCT	17	BW5	-0.83
12	31	61	15	0.19	0	PCT	9	BW5	0.31
13	31	61	15	0.34	0	PCT	14	BW5	1.06
14	31	61	15	0.93	0	PCT	28	BW6	-0.81
15	31	61	15	0.42	0	PCT	17	BW6	0.96
16	31	36	16	0.33	0	PCT	11	BW5	0.79
17	31	64	16	0.47	0	PCT	13	BW5	-0.98
18	31	64	16	0.30	0	PCT	9	BW5	0.82
19	31	45	17	0.21	0	PCT	7	BW5	-0.89
20	31	45	17	0.34	0	PCT	11	BW5	0.86
21	31	36	18	0.32	0	PCT	10	BW5	-1.04
22	31	36	18	0.28	0	PCT	8	BW5	0.87
23	31	62	18	0.45	0	PCT	13	BW4	0.64
24	31	42	20	0.28	0	PCT	9	BW5	-0.90
25	31	81	21	0.51	0	PCT	24	08C	0.70
26	31	32	22	0.30	0	PCT	9	BW5	-0.86
27	31	78	22	0.35	0	PCT	13	BW5	0.78
28	31	78	22	0.35	0	PCT	13	BW6	1.20
29	31	70	24	0.46	0	PCT	23	BW5	-0.85
30	31	70	24	0.45	0	PCT	23	BW6	0.92
31	31	5	25	0.32	0	PCT	9	07H	-0.28
32	31	37	25	0.29	0	PCT	10	BW5	-0.79
33	31	37	25	0.18	0	PCT	6	BW5	0.03
34	31	37	25	0.29	0	PCT	10	BW5	0.89
35	31	19	27	0.28	0	PCT	8	BW5	0.78
36	31	77	27	0.27	0	PCT	19	BW4	-0.34
37	31	77	27	0.34	0	PCT	21	BW5	-1.18
38	31	77	27	0.32	0	PCT	21	BW5	0.99
39	31	77	27	0.50	0	PCT	26	BW6	-0.84
40	31	77	27	0.36	0	PCT	22	BW6	0.90
41	31	50	28	0.21	0	PCT	7	BW5	-0.90
42	31	50	28	0.45	0	PCT	13	BW5	1.04
43	31	66	28	0.29	0	PCT	12	03C	0.18
44	31	105	29	0.22	0	PCT	10	BW7	-0.78
45	31	105	31	0.27	0	PCT	17	BW7	-0.66
46	31	105	31	0.28	0	PCT	18	04C	0.71
47	31	107	31	0.39	0	PCT	15	BW7	-0.75
48	31	82	32	0.32	0	PCT	13	BW4	0.81
49	31	100	32	0.30	0	PCT	12	09H	-0.79

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
50	31	114	34	0.32	0	PCT	19	BW9	2.00
51	31	55	35	0.37	0	PCT	11	BW4	0.69
52	31	61	35	0.42	0	PCT	12	BW5	0.95
53	31	61	35	0.37	0	PCT	11	BW6	0.98
54	31	77	35	0.26	0	PCT	18	BW5	-1.08
55	31	77	35	0.24	0	PCT	17	BW5	0.99
56	31	105	35	1.01	0	PCT	28	BW5	0.98
57	31	59	37	0.43	0	PCT	13	BW6	-0.93
58	31	119	37	0.28	0	PCT	17	10H	-0.98
59	31	80	38	0.22	0	PCT	17	BW4	-0.41
60	31	80	38	0.30	0	PCT	20	BW4	0.91
61	31	80	38	0.22	0	PCT	16	BW5	-0.82
62	31	80	38	0.60	0	PCT	28	BW6	-0.85
63	31	82	38	0.41	0	PCT	23	BW5	-0.82
64	31	82	38	1.07	0	PCT	36	BW6	-0.70
65	31	21	39	0.21	0	PCT	7	BW5	0.85
66	31	51	39	0.20	0	PCT	6	BW6	0.85
67	31	113	39	0.61	0	PCT	21	BW7	0.98
68	31	2	40	0.43	0	PCT	22	04C	0.88
69	31	42	40	0.28	0	PCT	9	BW5	0.80
70	31	50	40	0.32	0	PCT	10	BW5	-0.88
71	31	37	41	0.22	0	PCT	7	BW5	-0.93
72	31	39	41	0.78	0	PCT	20	BW5	-0.99
73	31	39	41	0.25	0	PCT	8	BW5	0.86
74	31	102	42	0.64	0	PCT	21	BW3	-0.46
75	31	1	43	0.06	0	PCT	2	07H	0.48
76	31	59	43	0.22	0	PCT	7	BW5	0.91
77	31	105	45	0.33	0	PCT	14	BW7	0.90
78	31	123	45	0.39	0	PCT	15	02H	0.95
79	31	22	46	0.19	0	PCT	6	BW5	-0.90
80	31	128	46	0.26	0	PCT	11	02H	-0.09
81	31	45	49	0.04	0	PCT	1	BW5	-0.48
82	31	45	49	0.36	0	PCT	11	BW5	0.65
83	31	59	49	0.38	0	PCT	12	BW5	0.79
84	31	99	51	0.27	0	PCT	19	04H	0.27
85	31	131	51	0.13	0	PCT	11	10H	-0.82
86	31	131	51	0.32	0	PCT	19	10H	0.82
87	31	46	52	0.52	0	PCT	14	BW5	0.87
88	31	43	53	0.54	0	PCT	14	BW5	0.71
89	31	105	53	0.54	0	PCT	27	BW3	-0.77
90	31	133	53	0.29	0	PCT	17	09C	-0.85
91	31	133	53	0.34	0	PCT	19	08C	0.89
92	31	22	54	0.20	0	PCT	6	BW5	-0.88
93	31	82	54	0.69	0	PCT	30	BW5	-0.85
94	31	82	54	0.97	0	PCT	34	BW5	0.82
95	31	82	54	0.26	0	PCT	18	BW6	-0.76
96	31	82	54	0.28	0	PCT	19	BW6	0.85
97	31	19	55	0.70	0	PCT	27	BW5	1.06
98	31	24	56	0.21	0	PCT	10	BW5	-0.48

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
99	31	50	56	0.37	0	PCT	15	BW5	-0.80
100	31	50	56	0.57	0	PCT	20	BW5	0.92
101	31	23	57	0.32	0	PCT	18	BW5	0.94
102	31	51	57	0.23	0	PCT	15	BW4	0.92
103	31	125	57	0.42	0	PCT	14	08C	0.52
104	31	135	57	0.37	0	PCT	20	10H	0.65
105	31	76	58	0.30	0	PCT	19	BW6	-0.77
106	31	129	59	0.39	0	PCT	20	BW3	-0.66
107	31	24	60	0.27	0	PCT	12	BW5	-0.77
108	31	30	60	0.48	0	PCT	18	BW5	0.90
109	31	32	60	0.27	0	PCT	12	BW5	0.89
110	31	138	60	0.45	0	PCT	17	09H	-0.91
111	31	81	61	0.55	0	PCT	27	BW4	0.81
112	31	82	62	0.34	0	PCT	21	BW4	-0.73
113	31	82	62	0.24	0	PCT	17	BW5	1.03
114	31	82	62	0.32	0	PCT	20	BW6	-0.70
115	31	138	62	0.32	0	PCT	13	01H	0.79
116	31	19	63	0.15	0	PCT	11	BW5	-1.19
117	31	19	63	0.39	0	PCT	20	BW5	0.70
118	31	35	63	0.38	0	PCT	20	BW5	-0.71
119	31	35	63	0.46	0	PCT	22	BW5	0.93
120	31	61	63	0.22	0	PCT	14	BW5	-0.71
121	31	61	63	0.47	0	PCT	22	BW5	1.01
122	31	63	63	0.38	0	PCT	15	BW4	-0.80
123	31	63	63	0.22	0	PCT	10	BW4	0.86
124	31	63	63	0.35	0	PCT	15	BW5	0.80
125	31	63	63	0.45	0	PCT	17	BW6	0.70
126	31	133	63	0.28	0	PCT	17	BW5	0.86
127	31	139	63	0.30	0	PCT	17	BW1	-1.62
128	31	23	65	0.31	0	PCT	18	BW5	0.97
129	31	135	65	0.32	0	PCT	18	BW8	-0.81
130	31	137	65	0.16	0	PCT	12	BW2	-0.53
131	31	137	65	0.34	0	PCT	19	BW4	0.97
132	31	44	66	0.59	0	PCT	20	BW5	0.89
133	31	46	66	0.37	0	PCT	15	BW9	1.74
134	31	50	66	1.64	0	PCT	37	BW5	-0.79
135	31	50	66	0.10	0	PCT	5	BW5	-0.03
136	31	50	66	0.22	0	PCT	10	BW5	0.92
137	31	51	67	0.12	0	PCT	9	BW4	-0.87
138	31	51	67	0.93	0	PCT	30	BW4	0.91
139	31	51	67	0.37	0	PCT	19	BW5	-0.63
140	31	121	67	0.25	0	PCT	17	03H	0.81
141	31	135	67	0.27	0	PCT	16	BW3	-0.70
142	31	40	68	0.27	0	PCT	12	BW5	0.87
143	31	46	70	0.59	0	PCT	20	BW5	-0.67
144	31	46	70	0.44	0	PCT	17	BW5	-0.06
145	31	46	70	0.85	0	PCT	26	BW5	0.89
146	31	50	70	0.33	0	PCT	13	BW5	0.89
147	31	138	70	0.29	0	PCT	17	08C	0.79

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
148	31	78	72	0.45	0	PCT	24	08C	-1.09
149	31	108	74	0.32	0	PCT	20	BW3	-0.90
150	31	103	75	0.21	0	PCT	15	02H	0.75
151	31	138	76	0.31	0	PCT	14	09C	-1.01
152	31	133	77	0.31	0	PCT	18	BW3	-0.51
153	31	133	77	0.34	0	PCT	19	BW4	-0.66
154	31	68	78	0.49	0	PCT	17	BW6	1.17
155	31	136	78	0.19	0	PCT	10	BW2	-1.20
156	31	61	79	0.29	0	PCT	17	BW5	0.85
157	31	78	80	0.33	0	PCT	13	BW5	-0.68
158	31	78	80	0.25	0	PCT	11	BW6	0.78
159	31	90	80	0.31	0	PCT	13	04H	0.91
160	31	96	80	0.19	0	PCT	9	03H	0.87
161	31	83	81	0.32	0	PCT	20	BW3	0.92
162	31	107	81	0.29	0	PCT	12	BW3	0.69
163	31	143	81	0.38	0	PCT	20	03H	-1.03
164	31	82	82	0.58	0	PCT	27	BW5	1.01
165	31	93	83	0.34	0	PCT	14	BW9	1.75
166	31	119	83	0.36	0	PCT	21	07C	-0.15
167	31	82	84	0.17	0	PCT	7	BW6	-0.71
168	31	82	84	0.19	0	PCT	9	BW6	0.93
169	31	83	87	0.27	0	PCT	12	BW7	0.94
170	31	70	88	0.29	0	PCT	12	BW9	-0.20
171	31	55	89	0.46	0	PCT	23	BW1	-1.80
172	31	121	91	0.28	0	PCT	18	02H	-0.84
173	31	144	92	0.24	0	PCT	11	04H	0.99
174	31	71	93	0.40	0	PCT	21	BW9	-1.67
175	31	133	93	0.24	0	PCT	10	BW1	-1.74
176	31	139	93	0.13	0	PCT	10	BW1	-1.85
177	31	139	93	0.05	0	PCT	4	BW9	1.99
178	31	56	94	0.62	0	PCT	27	BW9	4.01
179	31	69	95	0.31	0	PCT	19	BW9	1.93
180	31	82	96	0.56	0	PCT	27	BW5	-0.78
181	31	83	97	0.37	0	PCT	22	BW5	-0.78
182	31	83	97	0.22	0	PCT	16	BW5	0.52
183	31	83	97	0.33	0	PCT	20	BW6	-0.80
184	31	83	97	0.25	0	PCT	17	BW6	0.88
185	31	121	97	0.26	0	PCT	11	03H	-0.76
186	31	78	98	0.43	0	PCT	17	BW4	-0.66
187	31	78	98	0.08	0	PCT	4	BW4	0.89
188	31	78	98	0.57	0	PCT	20	BW6	1.19
189	31	78	98	0.26	0	PCT	12	08C	0.89
190	31	130	98	0.07	0	PCT	6	BW1	-1.71
191	31	134	98	0.23	0	PCT	15	01H	0.33
192	31	78	100	0.31	0	PCT	20	BW5	-0.75
193	31	78	100	0.17	0	PCT	14	BW5	0.08
194	31	78	100	0.33	0	PCT	20	BW5	0.83
195	31	78	100	0.26	0	PCT	17	BW6	-0.12
196	31	78	100	0.59	0	PCT	27	BW6	0.83

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
197	31	98	100	0.26	0	PCT	10	04H	0.89
198	31	141	105	0.49	0	PCT	18	09H	-0.46
199	31	42	108	0.93	0	PCT	32	BW5	-0.71
200	31	42	108	0.12	0	PCT	10	BW5	0.19
201	31	42	108	0.60	0	PCT	26	BW5	0.93
202	31	78	108	0.46	0	PCT	24	BW4	-0.69
203	31	78	108	0.43	0	PCT	24	BW5	-0.69
204	31	78	108	0.24	0	PCT	17	BW6	-0.74
205	31	140	108	0.36	0	PCT	14	08H	0.83
206	31	39	111	0.13	0	PCT	6	BW5	0.33
207	31	39	111	0.65	0	PCT	21	BW5	0.95
208	31	131	111	0.34	0	PCT	14	09C	0.87
209	31	22	112	0.16	0	PCT	12	BW5	1.12
210	31	40	112	0.25	0	PCT	16	BW5	-0.84
211	31	40	112	0.22	0	PCT	15	BW5	0.94
212	31	141	113	0.40	0	PCT	15	BW9	-1.50
213	31	31	115	0.25	0	PCT	10	01H	0.98
214	31	45	115	0.32	0	PCT	13	BW5	-0.74
215	31	45	115	0.09	0	PCT	5	BW5	0.12
216	31	45	115	0.26	0	PCT	11	BW5	0.68
217	31	49	115	0.37	0	PCT	14	BW5	-0.91
218	31	49	115	0.20	0	PCT	9	BW5	0.78
219	31	45	117	0.39	0	PCT	15	BW5	-0.78
220	31	99	117	0.27	0	PCT	12	BW4	-0.71
221	31	135	119	1.22	0	PCT	35	BW2	-0.77
222	31	135	119	0.12	0	PCT	10	BW2	0.18
223	31	135	119	0.64	0	PCT	27	BW2	1.05
224	31	135	119	0.15	0	PCT	11	BW3	-0.86
225	31	135	119	0.77	0	PCT	29	BW3	0.90
226	31	135	119	0.78	0	PCT	29	BW4	-0.77
227	31	135	119	0.12	0	PCT	10	BW4	0.15
228	31	135	119	0.74	0	PCT	29	BW4	1.01
229	31	135	119	0.41	0	PCT	21	BW7	-0.74
230	31	135	119	0.09	0	PCT	8	BW7	-0.03
231	31	135	119	0.20	0	PCT	14	BW7	1.12
232	31	22	120	0.16	0	PCT	12	BW5	-0.76
233	31	22	120	0.09	0	PCT	8	BW5	0.66
234	31	134	120	0.63	0	PCT	27	01C	0.81
235	31	133	121	0.71	0	PCT	28	BW2	-0.74
236	31	133	121	0.20	0	PCT	14	BW2	0.09
237	31	133	121	1.29	0	PCT	36	BW2	0.99
238	31	133	121	0.38	0	PCT	21	BW3	-0.37
239	31	133	121	0.17	0	PCT	12	BW3	0.00
240	31	133	121	0.33	0	PCT	19	BW4	-0.67
241	31	132	124	0.24	0	PCT	10	08H	0.86
242	31	133	125	0.29	0	PCT	12	07C	-1.10
243	31	40	126	0.26	0	PCT	11	BW5	-0.79
244	31	72	126	0.09	0	PCT	8	02H	-0.83
245	31	72	126	0.34	0	PCT	20	BW4	-0.51

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
246	31	72	126	0.78	0	PCT	31	BW4	1.13
247	31	72	126	0.27	0	PCT	18	BW5	-0.88
248	31	72	126	0.35	0	PCT	21	BW5	0.15
249	31	82	126	0.26	0	PCT	17	BW6	1.01
250	31	131	127	0.12	0	PCT	6	07H	-0.63
251	31	131	127	0.29	0	PCT	12	07H	0.91
252	31	76	128	0.50	0	PCT	24	BW4	0.95
253	31	76	128	0.44	0	PCT	23	BW5	-0.60
254	31	76	128	0.25	0	PCT	17	BW5	0.00
255	31	76	128	0.38	0	PCT	21	BW5	1.03
256	31	76	128	0.40	0	PCT	22	BW6	-0.70
257	31	76	128	0.88	0	PCT	32	BW6	1.03
258	31	81	129	0.14	0	PCT	7	01H	0.80
259	31	105	129	0.16	0	PCT	13	BW1	2.03
260	31	127	129	0.32	0	PCT	13	BW2	-0.91
261	31	128	130	0.21	0	PCT	9	01H	0.90
262	31	81	131	0.15	0	PCT	12	03H	-0.68
263	31	74	132	0.15	0	PCT	12	02H	0.89
264	31	74	132	0.04	0	PCT	4	03H	-0.28
265	31	74	134	0.36	0	PCT	21	BW6	0.81
266	31	92	134	0.17	0	PCT	8	03C	0.18
267	31	123	135	0.23	0	PCT	10	09H	0.97
268	31	122	136	0.30	0	PCT	19	02C	0.82
269	31	63	137	0.26	0	PCT	11	BW4	-0.91
270	31	63	137	0.42	0	PCT	15	BW5	-0.79
271	31	119	137	0.21	0	PCT	15	BW5	-0.18
272	31	119	137	0.11	0	PCT	10	BW5	0.91
273	31	78	138	0.55	0	PCT	20	BW4	-0.73
274	31	78	138	0.15	0	PCT	7	BW4	0.61
275	31	82	138	0.26	0	PCT	12	BW4	-0.75
276	31	82	138	0.28	0	PCT	12	BW4	0.93
277	31	82	138	0.43	0	PCT	17	BW5	0.82
278	31	82	138	0.85	0	PCT	25	BW6	0.91
279	31	1	139	0.27	0	PCT	16	04C	0.83
280	31	67	139	0.28	0	PCT	18	08C	0.89
281	31	76	140	0.21	0	PCT	15	BW4	-0.97
282	31	76	140	0.20	0	PCT	15	BW4	0.76
283	31	76	140	0.23	0	PCT	16	BW5	0.15
284	31	76	140	0.29	0	PCT	18	BW5	0.77
285	31	76	140	0.15	0	PCT	12	BW6	0.12
286	31	76	140	0.77	0	PCT	30	BW6	0.79
287	31	82	140	0.63	0	PCT	27	BW4	1.04
288	31	82	140	0.88	0	PCT	32	BW6	-0.73
289	31	82	140	0.33	0	PCT	20	BW6	0.73
290	31	84	140	0.25	0	PCT	17	02H	-0.18
291	31	84	140	0.15	0	PCT	12	02H	0.73
292	31	92	140	0.13	0	PCT	11	02H	0.89
293	31	105	141	0.16	0	PCT	11	09C	-0.33
294	31	78	142	0.36	0	PCT	15	BW4	-0.67

Table D-3
SG31 Service Induced Indications - Wear at Supports - RF16

Count	SG	Row	Col	Volts	Deg	Ind	Per TW	Locn	Inch1
295	31	78	142	0.28	0	PCT	12	BW4	0.90
296	31	78	142	0.33	0	PCT	14	BW5	0.09
297	31	78	142	0.39	0	PCT	16	BW6	-0.79
298	31	82	142	0.49	0	PCT	18	BW6	-0.76
299	31	113	143	0.36	0	PCT	14	BW9	1.61
300	31	48	144	1.10	0	PCT	27	BW5	-0.86
301	31	48	144	0.45	0	PCT	16	BW5	1.09
302	31	74	144	0.34	0	PCT	19	BW5	0.82
303	31	74	144	0.43	0	PCT	22	BW6	0.88
304	31	78	144	1.32	0	PCT	36	BW4	-0.82
305	31	78	144	0.29	0	PCT	17	BW4	-0.09
306	31	78	144	1.02	0	PCT	33	BW4	0.70
307	31	78	144	0.39	0	PCT	21	BW5	-0.76
308	31	78	144	0.64	0	PCT	27	BW5	-0.06
309	31	78	144	0.28	0	PCT	17	BW5	0.70
310	31	78	144	0.32	0	PCT	18	BW6	-0.78
311	31	78	144	1.03	0	PCT	33	BW6	0.78
312	31	95	145	0.42	0	PCT	21	09C	0.64
313	31	81	147	0.36	0	PCT	20	BW6	0.79
314	31	103	147	0.34	0	PCT	18	BW3	0.89
315	31	76	148	0.29	0	PCT	17	BW4	-0.58
316	31	76	148	0.16	0	PCT	11	BW4	1.05
317	31	83	149	0.73	0	PCT	28	BW7	1.02
318	31	83	155	0.14	0	PCT	7	08C	-1.06
319	31	93	155	0.25	0	PCT	11	02C	-0.86
320	31	44	156	0.16	0	PCT	8	BW5	0.10
321	31	44	156	0.41	0	PCT	16	BW5	0.70
322	31	48	158	0.37	0	PCT	20	BW5	-0.29
323	31	82	158	0.89	0	PCT	32	01C	0.89
324	31	81	159	0.19	0	PCT	9	BW9	1.96
325	31	12	160	0.26	0	PCT	11	03H	0.91
326	31	79	161	0.39	0	PCT	21	02C	0.73
327	31	18	164	0.25	0	PCT	10	02H	0.95
328	31	60	164	0.42	0	PCT	21	01C	-0.87
329	31	1	167	0.37	0	PCT	20	03C	0.79
330	31	19	167	0.23	0	PCT	15	BW5	-0.70
331	31	19	167	0.54	0	PCT	24	BW5	0.93
332	31	1	169	0.31	0	PCT	17	03C	-0.25
333	31	1	169	0.20	0	PCT	13	03C	0.99
334	31	42	170	0.45	0	PCT	16	01C	0.21
335	31	16	172	0.38	0	PCT	14	01C	-0.30
336	31	5	175	0.33	0	PCT	13	01C	-0.20

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
1	19	3	0.18	0	PCT	13	BW5	-0.87
2	19	3	0.99	0	PCT	32	BW5	0.93
3	46	6	0.40	0	PCT	19	BW5	-0.64
4	29	7	0.31	0	PCT	18	BW5	-0.88
5	2	8	0.32	0	PCT	16	BW9	-0.93
6	41	9	0.23	0	PCT	15	BW5	-0.26
7	44	10	0.26	0	PCT	17	BW5	-0.68
8	44	10	0.09	0	PCT	8	BW5	-0.16
9	44	10	0.63	0	PCT	27	BW5	1.04
10	65	11	0.26	0	PCT	14	01C	0.06
11	67	11	1.33	0	PCT	36	BW6	-0.79
12	67	11	0.40	0	PCT	19	BW6	0.06
13	67	11	0.48	0	PCT	21	BW6	0.89
14	19	13	0.23	0	PCT	13	05H	0.13
15	23	15	0.19	0	PCT	14	BW5	-0.84
16	33	15	0.30	0	PCT	18	BW5	-0.92
17	44	16	1.18	0	PCT	33	BW5	-0.62
18	44	16	0.56	0	PCT	23	BW5	0.98
19	80	16	0.17	0	PCT	11	BW9	1.45
20	82	16	0.32	0	PCT	17	BW9	-1.29
21	35	17	0.16	0	PCT	10	BW5	-0.69
22	46	18	0.36	0	PCT	20	BW5	-0.77
23	46	18	0.34	0	PCT	20	BW5	0.96
24	46	18	0.38	0	PCT	21	07C	0.84
25	48	18	1.50	0	PCT	39	BW5	-0.92
26	48	18	0.20	0	PCT	14	BW5	0.00
27	48	18	0.95	0	PCT	33	BW5	0.90
28	62	18	0.36	0	PCT	20	01H	0.76
29	71	19	0.14	0	PCT	9	BW9	1.60
30	81	19	0.13	0	PCT	8	BW9	1.95
31	4	20	0.25	0	PCT	12	06C	-0.10
32	74	20	0.33	0	PCT	18	BW9	-1.98
33	80	20	0.32	0	PCT	17	BW9	1.37
34	90	20	0.31	0	PCT	17	05H	0.79
35	90	20	0.70	0	PCT	26	09H	-0.97
36	79	21	0.49	0	PCT	21	BW9	1.33
37	81	21	0.33	0	PCT	16	BW6	-0.80
38	81	21	0.17	0	PCT	10	BW9	1.30
39	93	21	0.18	0	PCT	12	04H	0.80
40	82	22	0.11	0	PCT	8	BW9	-1.41
41	82	22	0.26	0	PCT	15	BW9	1.40
42	79	23	0.31	0	PCT	16	BW9	1.55
43	76	24	0.29	0	PCT	17	BW4	-0.94
44	76	24	0.35	0	PCT	19	BW5	-0.79
45	76	24	0.37	0	PCT	20	BW6	0.75
46	76	24	0.26	0	PCT	16	BW9	1.80
47	19	25	0.60	0	PCT	24	BW5	-0.74
48	19	25	0.35	0	PCT	18	BW5	1.16
49	69	25	0.51	0	PCT	22	BW6	0.89

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
50	71	25	0.20	0	PCT	11	BW9	1.62
51	77	25	0.21	0	PCT	12	BW9	1.41
52	79	25	0.36	0	PCT	17	BW6	0.99
53	79	25	0.81	0	PCT	28	BW9	1.51
54	81	25	0.31	0	PCT	16	BW4	-0.85
55	81	25	0.29	0	PCT	15	BW9	1.39
56	101	25	0.13	0	PCT	9	BW1	-1.49
57	101	25	1.27	0	PCT	34	BW1	1.92
58	76	26	0.21	0	PCT	13	BW9	1.55
59	80	26	0.37	0	PCT	19	08C	-0.95
60	82	26	0.20	0	PCT	13	BW5	-0.84
61	82	26	0.19	0	PCT	12	BW5	0.83
62	82	26	0.32	0	PCT	17	BW6	-0.89
63	82	26	0.69	0	PCT	27	BW6	0.98
64	82	26	0.34	0	PCT	18	08C	0.86
65	1	27	0.44	0	PCT	22	06C	0.64
66	23	27	0.22	0	PCT	13	BW5	-0.72
67	79	27	0.60	0	PCT	26	BW9	1.68
68	81	27	0.23	0	PCT	15	BW4	-0.72
69	81	27	0.24	0	PCT	15	BW4	0.94
70	81	27	0.24	0	PCT	15	BW5	0.83
71	81	27	0.50	0	PCT	23	BW6	0.95
72	101	27	0.43	0	PCT	20	BW9	1.40
73	4	28	0.28	0	PCT	13	05C	-0.69
74	4	28	0.27	0	PCT	12	03C	-0.70
75	80	28	0.20	0	PCT	11	BW6	-0.86
76	80	28	0.42	0	PCT	19	BW6	0.98
77	82	28	0.21	0	PCT	12	BW4	-0.76
78	82	28	0.17	0	PCT	10	BW4	1.11
79	82	28	0.26	0	PCT	14	BW5	-0.73
80	82	28	1.10	0	PCT	31	BW6	1.13
81	1	29	0.28	0	PCT	17	04C	0.85
82	1	29	0.57	0	PCT	25	03C	0.86
83	77	29	0.22	0	PCT	12	BW6	-0.68
84	77	29	0.64	0	PCT	24	BW6	0.90
85	48	30	0.26	0	PCT	15	BW5	-0.74
86	48	30	0.20	0	PCT	13	BW5	0.81
87	94	30	0.62	0	PCT	26	09C	0.03
88	94	30	0.26	0	PCT	16	09C	0.92
89	104	30	0.17	291	VOL	19	07C	1.85
90	1	31	0.19	0	PCT	13	05C	-0.36
91	1	31	0.24	0	PCT	15	03C	-0.91
92	1	31	0.21	0	PCT	14	03C	0.85
93	3	31	0.71	0	PCT	28	05C	0.80
94	43	31	0.19	0	PCT	12	BW5	-0.80
95	107	31	0.27	0	PCT	15	BW1	-1.19
96	107	31	0.41	0	PCT	20	BW9	1.46
97	109	31	0.32	0	PCT	17	BW1	-1.49
98	109	31	0.10	0	PCT	8	BW1	1.68

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
99	4	32	0.19	0	PCT	10	05C	-0.86
100	46	32	0.48	0	PCT	20	BW5	-0.91
101	46	32	0.15	0	PCT	9	BW5	0.06
102	46	32	0.16	0	PCT	10	BW5	0.97
103	68	32	0.23	0	PCT	12	BW9	-1.62
104	76	32	0.11	0	PCT	7	BW9	-1.86
105	33	33	0.37	0	PCT	17	BW5	-0.86
106	67	33	0.28	0	PCT	14	BW9	1.42
107	79	33	0.17	0	PCT	10	BW9	1.38
108	81	33	0.52	0	PCT	21	BW5	-0.83
109	81	33	0.60	0	PCT	23	BW5	0.89
110	81	33	0.27	0	PCT	14	BW9	1.60
111	83	33	0.24	0	PCT	13	BW5	0.89
112	59	35	0.16	0	PCT	11	BW6	0.00
113	59	35	0.93	0	PCT	31	BW6	0.80
114	69	35	0.31	0	PCT	18	BW5	0.85
115	77	35	0.25	0	PCT	16	BW5	0.80
116	83	35	0.17	0	PCT	12	BW3	0.96
117	83	35	0.68	0	PCT	28	BW5	0.98
118	83	35	0.46	0	PCT	23	BW7	-0.92
119	83	35	0.50	0	PCT	24	BW7	1.05
120	111	35	0.43	0	PCT	20	09H	-1.08
121	100	36	0.20	0	PCT	11	BW5	-0.78
122	108	36	0.56	0	PCT	23	BW1	2.04
123	43	37	0.55	0	PCT	22	BW5	-0.65
124	43	37	0.41	0	PCT	18	BW5	1.01
125	77	37	0.21	0	PCT	12	BW4	-0.85
126	77	37	0.36	0	PCT	17	BW4	0.94
127	77	37	0.24	0	PCT	13	BW5	-0.94
128	77	37	0.49	0	PCT	20	BW5	0.92
129	111	37	0.41	0	PCT	20	BW1	2.01
130	117	37	0.26	0	PCT	14	05H	-0.89
131	41	39	0.37	0	PCT	19	BW5	0.84
132	115	39	0.17	0	PCT	11	BW9	1.48
133	117	39	0.32	0	PCT	17	BW5	-0.90
134	44	40	0.51	0	PCT	21	BW5	-0.65
135	44	40	0.08	0	PCT	5	BW5	0.16
136	44	40	0.27	0	PCT	14	BW5	1.01
137	46	40	0.25	0	PCT	13	BW5	0.98
138	94	40	0.83	0	PCT	27	BW3	-0.88
139	94	40	0.21	0	PCT	12	BW4	-0.98
140	94	40	0.22	0	PCT	12	BW5	-0.81
141	94	40	0.25	0	PCT	13	BW5	1.05
142	94	40	0.21	0	PCT	12	BW6	-0.71
143	94	40	0.80	0	PCT	26	BW6	0.94
144	81	41	1.27	0	PCT	33	BW5	-0.82
145	81	41	1.27	0	PCT	33	BW5	0.95
146	81	41	0.72	0	PCT	25	BW6	-0.86
147	81	41	0.15	0	PCT	9	BW6	0.86

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
148	83	41	0.30	0	PCT	15	BW3	0.98
149	2	42	0.37	0	PCT	17	05C	-0.90
150	82	42	0.36	0	PCT	20	08C	0.93
151	96	42	0.44	0	PCT	20	BW3	-0.75
152	96	42	0.22	0	PCT	13	BW3	0.81
153	96	42	0.67	0	PCT	26	BW5	-0.93
154	114	42	0.40	0	PCT	19	08C	0.74
155	113	43	0.19	0	PCT	12	BW9	0.94
156	119	43	0.14	0	PCT	10	08C	-0.19
157	119	43	0.27	0	PCT	15	08C	0.81
158	125	43	0.59	0	PCT	24	03C	0.83
159	2	44	0.29	0	PCT	17	03H	0.77
160	22	44	0.19	0	PCT	14	BW5	-0.86
161	124	44	0.19	0	PCT	11	BW6	0.89
162	1	45	0.37	0	PCT	20	04C	-0.28
163	1	45	0.21	0	PCT	14	04C	0.74
164	67	45	0.47	0	PCT	21	BW5	0.96
165	109	45	0.36	0	PCT	20	BW6	-0.40
166	127	45	0.52	0	PCT	22	02C	0.77
167	48	46	0.27	0	PCT	15	BW5	-0.85
168	48	46	0.14	0	PCT	9	BW5	0.94
169	80	46	0.79	0	PCT	26	08C	-0.95
170	1	47	0.24	0	PCT	15	05C	-0.96
171	1	47	1.55	0	PCT	38	05C	0.83
172	43	47	0.18	0	PCT	11	BW5	-0.62
173	77	47	0.24	0	PCT	15	BW4	-0.87
174	44	48	0.41	0	PCT	19	BW5	0.79
175	80	48	1.09	0	PCT	33	BW5	-0.71
176	126	48	0.28	0	PCT	16	09C	-0.86
177	3	49	0.34	0	PCT	19	05C	-0.99
178	77	49	0.28	0	PCT	14	BW5	0.96
179	79	49	0.27	0	PCT	13	BW6	-0.50
180	81	49	0.74	0	PCT	25	BW5	0.99
181	81	49	0.50	0	PCT	20	BW6	-0.56
182	81	49	0.08	0	PCT	5	BW6	0.09
183	81	49	0.24	0	PCT	12	BW6	0.90
184	81	49	0.60	0	PCT	22	08C	0.74
185	81	49	0.27	0	PCT	13	07C	-0.90
186	44	50	0.38	0	PCT	20	BW5	-0.78
187	56	50	0.24	0	PCT	15	05C	0.77
188	1	51	0.40	0	PCT	21	04C	0.88
189	47	51	0.33	0	PCT	17	BW5	0.95
190	77	51	0.75	0	PCT	28	BW4	-0.68
191	77	51	0.92	0	PCT	31	BW6	-0.83
192	77	51	0.25	0	PCT	15	BW6	-0.31
193	77	51	0.22	0	PCT	13	BW6	0.74
194	83	51	0.24	0	PCT	15	BW7	1.01
195	44	52	0.52	0	PCT	21	BW5	-0.75
196	44	52	0.34	0	PCT	16	BW5	0.91

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
197	46	52	0.50	0	PCT	21	BW5	-0.81
198	48	52	0.23	0	PCT	12	BW5	-0.80
199	134	52	0.26	0	PCT	16	BW1	1.53
200	134	52	0.29	0	PCT	17	BW2	0.92
201	134	52	0.37	0	PCT	19	BW9	1.46
202	134	52	0.25	0	PCT	15	08C	-0.98
203	1	53	0.28	0	PCT	17	04C	-0.80
204	35	53	0.20	0	PCT	13	BW5	-0.95
205	35	53	0.24	0	PCT	15	BW5	0.95
206	69	53	0.13	0	PCT	9	BW9	1.10
207	73	53	0.37	0	PCT	19	BW5	-0.74
208	73	53	0.62	0	PCT	25	BW5	1.09
209	73	53	1.14	0	PCT	34	BW6	-0.72
210	73	53	0.75	0	PCT	28	BW6	0.03
211	73	53	0.62	0	PCT	25	BW6	0.84
212	36	54	0.26	0	PCT	16	BW5	-0.85
213	82	54	0.69	0	PCT	24	BW4	0.90
214	114	54	0.51	0	PCT	24	BW7	1.10
215	81	55	0.31	0	PCT	14	BW5	0.91
216	107	55	0.65	0	PCT	22	BW5	0.09
217	107	55	0.53	0	PCT	20	BW5	0.80
218	107	55	0.49	0	PCT	19	BW6	-0.93
219	129	55	0.39	0	PCT	19	09C	-0.84
220	24	56	0.20	0	PCT	12	BW5	-0.80
221	94	56	0.20	0	PCT	10	BW3	-0.79
222	94	56	0.33	0	PCT	14	BW4	-0.79
223	94	56	0.35	0	PCT	15	BW5	0.92
224	51	57	0.23	0	PCT	15	BW6	0.96
225	73	57	0.19	0	PCT	14	BW5	-0.55
226	73	57	0.18	0	PCT	13	BW5	1.06
227	73	57	0.08	0	PCT	7	BW6	0.00
228	73	57	0.82	0	PCT	31	BW6	0.62
229	73	57	0.08	0	PCT	7	BW6	0.82
230	77	57	0.37	0	PCT	21	BW5	-0.79
231	77	57	0.24	0	PCT	16	BW6	-0.86
232	81	57	0.90	0	PCT	32	BW4	-0.89
233	81	57	0.28	0	PCT	17	BW4	-0.12
234	81	57	0.30	0	PCT	18	BW4	0.73
235	81	57	0.34	0	PCT	20	BW5	-1.10
236	81	57	0.23	0	PCT	15	BW5	0.63
237	81	57	0.13	0	PCT	10	BW6	-0.74
238	81	57	0.30	0	PCT	18	BW6	0.68
239	81	57	0.30	0	PCT	18	BW6	0.92
240	83	57	0.61	0	PCT	27	BW3	-0.71
241	83	57	0.31	0	PCT	19	BW5	-0.92
242	83	57	0.10	0	PCT	9	BW5	0.66
243	43	59	0.28	0	PCT	16	BW5	-0.87
244	43	59	0.56	0	PCT	24	BW5	1.00
245	83	59	0.31	0	PCT	14	BW7	-0.94

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
246	41	61	0.24	0	PCT	15	BW5	0.94
247	77	61	0.86	0	PCT	31	BW4	-0.87
248	77	61	0.70	0	PCT	29	BW4	1.03
249	133	61	0.47	0	PCT	21	BW3	0.94
250	133	61	0.54	0	PCT	23	BW5	0.77
251	137	61	0.27	0	PCT	15	09C	-1.11
252	41	63	0.24	0	PCT	15	BW9	1.72
253	43	63	1.34	0	PCT	36	BW5	0.76
254	137	63	0.25	0	PCT	14	09C	-1.05
255	46	64	0.48	0	PCT	21	BW5	-0.84
256	46	64	0.23	0	PCT	13	BW5	-0.16
257	46	64	1.69	0	PCT	40	BW5	0.96
258	82	64	0.41	0	PCT	21	BW4	-0.52
259	82	64	1.03	0	PCT	33	BW4	0.31
260	82	64	1.53	0	PCT	39	BW4	1.01
261	82	64	0.75	0	PCT	29	BW6	-0.79
262	82	64	0.35	0	PCT	19	BW6	0.03
263	82	64	0.30	0	PCT	18	BW6	0.79
264	92	64	0.46	0	PCT	21	BW5	0.93
265	118	64	0.23	0	PCT	14	04H	0.92
266	37	65	0.24	0	PCT	15	BW5	-0.88
267	37	65	0.13	0	PCT	10	BW5	0.00
268	119	67	0.40	0	PCT	19	09C	0.16
269	141	69	0.48	0	PCT	21	BW5	-0.80
270	141	69	0.32	0	PCT	16	BW5	0.96
271	141	69	0.38	0	PCT	18	BW7	0.72
272	77	71	0.34	0	PCT	15	BW4	0.93
273	77	71	0.39	0	PCT	17	BW5	0.79
274	77	71	0.32	0	PCT	15	BW6	0.91
275	139	71	0.47	0	PCT	21	BW2	-0.80
276	92	72	0.32	0	PCT	17	BW5	-0.81
277	102	72	0.09	0	PCT	7	BW9	1.78
278	130	72	0.15	0	PCT	11	04H	0.89
279	141	73	0.21	0	PCT	12	05H	-0.19
280	141	73	0.16	0	PCT	10	BW1	-1.58
281	141	75	0.35	0	PCT	18	BW1	1.64
282	67	77	0.24	0	PCT	14	BW9	-1.40
283	143	77	0.29	0	PCT	15	BW2	-0.91
284	110	78	0.38	0	PCT	18	BW6	-0.94
285	112	80	0.22	0	PCT	13	BW3	-0.87
286	112	80	0.10	0	PCT	7	BW3	0.94
287	105	83	0.27	0	PCT	15	08C	0.84
288	143	83	0.15	0	PCT	9	BW8	0.89
289	128	86	0.19	0	PCT	11	09C	0.93
290	71	87	0.25	0	PCT	13	BW9	0.50
291	143	87	0.17	0	PCT	12	09H	0.98
292	105	89	0.44	0	PCT	21	BW5	0.91
293	117	89	0.25	0	PCT	15	BW4	-0.80
294	143	89	0.22	0	PCT	14	09H	0.83

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
295	145	89	0.31	0	PCT	18	BW4	-0.96
296	145	89	0.47	0	PCT	22	BW7	-0.84
297	145	89	0.82	0	PCT	29	BW8	-0.86
298	145	89	0.63	0	PCT	26	BW8	0.83
299	145	89	0.32	0	PCT	18	08C	-1.08
300	145	89	0.41	0	PCT	21	08C	0.70
301	67	91	0.06	0	PCT	4	BW9	3.50
302	81	91	0.31	0	PCT	18	BW4	0.92
303	81	91	0.23	0	PCT	15	BW5	0.90
304	81	91	0.35	0	PCT	19	BW6	-0.68
305	111	91	0.33	0	PCT	16	08C	0.68
306	119	91	0.57	0	PCT	22	08C	-0.99
307	66	92	0.03	0	PCT	3	BW9	-1.37
308	66	92	0.05	0	PCT	4	BW9	0.35
309	144	92	0.21	0	PCT	12	08C	0.80
310	65	93	0.08	0	PCT	5	BW9	3.64
311	69	93	0.08	0	PCT	6	BW9	0.12
312	81	93	0.28	0	PCT	16	BW4	-0.80
313	81	93	0.28	0	PCT	16	BW4	0.77
314	64	94	0.16	0	PCT	9	BW9	3.25
315	68	94	0.19	0	PCT	13	BW9	3.92
316	76	94	0.37	0	PCT	20	08C	-0.80
317	98	94	0.21	0	PCT	13	BW9	2.05
318	79	95	0.25	0	PCT	15	BW4	-0.90
319	79	95	0.25	0	PCT	15	BW4	0.71
320	145	95	0.69	0	PCT	27	BW8	-0.51
321	145	95	0.26	0	PCT	15	BW8	0.88
322	64	96	0.16	0	PCT	9	BW9	3.30
323	66	96	0.47	0	PCT	20	BW1	1.79
324	68	96	0.13	0	PCT	9	BW9	0.48
325	67	97	0.32	0	PCT	18	02H	-0.79
326	67	97	0.08	0	PCT	6	BW9	3.37
327	81	97	0.55	0	PCT	24	BW4	0.96
328	81	97	0.17	0	PCT	12	BW5	-0.80
329	81	97	0.75	0	PCT	28	BW5	0.81
330	81	97	0.27	0	PCT	16	BW6	-0.71
331	81	97	0.16	0	PCT	11	BW9	0.25
332	68	98	0.05	0	PCT	4	BW9	0.25
333	72	98	0.31	0	PCT	18	BW9	0.16
334	79	99	0.49	0	PCT	23	BW4	-0.70
335	79	99	0.20	0	PCT	14	BW5	-0.22
336	79	99	0.14	0	PCT	10	BW5	0.95
337	68	100	0.05	0	PCT	4	BW9	1.97
338	144	100	0.22	0	PCT	12	BW9	-1.77
339	68	102	0.32	0	PCT	15	BW9	1.90
340	143	103	0.42	0	PCT	21	BW9	-1.92
341	114	106	0.34	0	PCT	17	BW4	-0.19
342	77	107	0.29	0	PCT	15	BW4	-0.84
343	77	107	0.51	0	PCT	21	BW5	-0.74

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
344	77	107	1.26	0	PCT	33	BW5	0.16
345	77	107	1.43	0	PCT	35	BW5	0.86
346	77	107	0.46	0	PCT	20	BW6	-0.86
347	77	107	0.64	0	PCT	24	BW6	-0.10
348	83	107	0.37	0	PCT	17	BW3	-1.00
349	119	107	0.37	0	PCT	19	08C	-1.08
350	92	108	0.27	0	PCT	16	06C	-0.77
351	77	109	0.60	0	PCT	26	BW6	0.86
352	113	109	0.70	0	PCT	27	BW3	0.80
353	115	109	0.30	0	PCT	17	BW8	0.96
354	50	110	1.66	0	PCT	37	BW5	-0.79
355	50	110	0.23	0	PCT	12	BW5	0.82
356	82	110	0.23	0	PCT	13	BW5	-0.86
357	82	110	0.24	0	PCT	13	BW6	0.73
358	37	111	0.34	0	PCT	18	BW5	0.81
359	41	111	1.32	0	PCT	34	BW5	0.84
360	99	111	0.32	0	PCT	18	BW3	0.94
361	32	112	0.10	0	PCT	8	BW5	-0.76
362	32	112	0.37	0	PCT	19	BW5	0.83
363	36	112	0.20	0	PCT	13	BW5	-0.82
364	38	112	0.34	0	PCT	17	05C	-0.76
365	76	112	0.19	0	PCT	13	03H	-0.77
366	82	112	0.19	0	PCT	13	BW6	0.78
367	100	112	0.31	0	PCT	16	08C	0.47
368	114	112	0.33	0	PCT	16	BW3	0.97
369	81	113	0.73	0	PCT	28	BW4	0.80
370	135	113	0.61	0	PCT	25	BW8	-0.06
371	30	114	0.20	0	PCT	12	03C	-0.89
372	98	114	0.32	0	PCT	19	08C	0.86
373	25	115	0.15	0	PCT	10	BW5	-0.98
374	123	115	0.28	0	PCT	17	08C	-0.99
375	123	115	0.16	0	PCT	12	08C	0.80
376	127	115	0.30	0	PCT	17	08C	-0.37
377	40	116	0.42	0	PCT	20	BW5	1.04
378	46	116	0.68	0	PCT	26	BW5	0.89
379	106	116	0.30	0	PCT	16	BW7	-0.91
380	19	117	0.64	0	PCT	26	BW5	-1.07
381	29	117	0.34	0	PCT	17	06C	0.80
382	77	117	1.17	0	PCT	35	BW6	-0.76
383	77	117	0.68	0	PCT	27	BW6	0.86
384	133	117	0.46	0	PCT	22	BW3	0.92
385	135	117	0.34	0	PCT	19	01C	0.71
386	74	118	0.82	0	PCT	27	BW4	-0.77
387	74	118	1.10	0	PCT	31	BW5	-0.77
388	74	118	0.28	0	PCT	15	BW6	-0.61
389	74	118	0.39	0	PCT	18	BW6	0.83
390	2	122	0.24	0	PCT	13	01C	0.85
391	40	122	0.15	0	PCT	11	BW5	-0.74
392	40	122	0.22	0	PCT	15	BW5	0.81

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
393	104	122	0.35	0	PCT	20	BW3	-0.87
394	113	123	0.38	0	PCT	21	BW3	0.91
395	37	125	0.30	0	PCT	13	BW5	-1.09
396	81	125	0.23	0	PCT	15	BW4	0.75
397	127	125	0.24	0	PCT	15	06C	-0.83
398	133	125	0.50	0	PCT	23	04C	1.08
399	133	125	0.28	0	PCT	17	02C	1.08
400	2	126	0.36	0	PCT	17	05C	-0.88
401	41	127	0.40	0	PCT	21	BW5	0.82
402	131	127	0.21	0	PCT	14	BW1	2.03
403	22	128	0.25	0	PCT	11	02H	0.72
404	82	128	0.21	0	PCT	14	BW5	-0.76
405	82	128	0.78	0	PCT	29	BW5	0.94
406	82	128	0.48	0	PCT	23	BW6	0.85
407	43	129	0.26	0	PCT	12	BW5	-0.68
408	43	129	0.26	0	PCT	12	BW5	0.58
409	81	129	0.26	0	PCT	16	08H	-0.74
410	83	131	0.32	0	PCT	16	BW7	1.01
411	125	131	0.33	0	PCT	19	02C	0.83
412	126	132	0.22	0	PCT	14	10H	-1.04
413	126	132	0.30	0	PCT	18	02C	-0.80
414	111	133	0.23	0	PCT	13	BW3	0.85
415	123	133	0.28	0	PCT	15	03C	0.83
416	125	133	0.26	0	PCT	14	BW4	-0.80
417	100	134	0.23	0	PCT	15	07C	-0.03
418	1	135	0.29	0	PCT	16	04C	0.88
419	82	136	0.24	0	PCT	13	BW4	-0.59
420	92	136	0.33	0	PCT	16	BW4	-0.82
421	92	136	0.36	0	PCT	17	07C	0.78
422	109	137	0.52	0	PCT	22	08C	0.82
423	41	139	0.47	0	PCT	19	BW5	0.86
424	79	139	0.39	0	PCT	18	08C	-0.25
425	79	139	0.16	0	PCT	10	08C	0.78
426	80	140	0.47	0	PCT	20	BW9	1.98
427	84	140	0.27	0	PCT	14	BW9	-1.86
428	23	141	0.26	0	PCT	12	03H	0.86
429	37	141	0.34	0	PCT	15	BW5	-0.87
430	81	141	0.29	0	PCT	17	08C	-0.28
431	109	141	0.31	0	PCT	16	BW5	0.91
432	50	142	0.42	0	PCT	17	BW5	-0.77
433	66	142	0.34	0	PCT	16	08C	0.85
434	106	142	0.23	0	PCT	15	09H	0.77
435	75	143	0.20	0	PCT	11	04C	-0.15
436	105	143	0.58	0	PCT	23	09H	-0.79
437	105	143	0.25	0	PCT	14	09H	0.13
438	105	143	0.44	0	PCT	20	BW3	1.03
439	105	143	0.33	0	PCT	17	BW6	-0.79
440	82	144	0.56	0	PCT	22	BW5	0.61
441	96	144	0.38	0	PCT	19	08C	-1.08

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
442	104	144	0.24	0	PCT	15	04H	0.65
443	45	145	1.03	0	PCT	30	BW5	-0.83
444	45	145	0.63	0	PCT	23	BW5	0.86
445	81	145	0.29	0	PCT	17	08H	-0.80
446	109	145	0.27	0	PCT	15	09H	0.79
447	84	146	0.20	0	PCT	13	BW9	-1.56
448	47	147	0.38	0	PCT	21	BW5	-0.79
449	47	147	0.64	0	PCT	27	BW5	0.89
450	91	147	0.32	0	PCT	16	09C	-0.98
451	103	147	0.35	0	PCT	17	09C	-1.10
452	82	148	0.34	0	PCT	16	BW4	-0.65
453	41	149	1.70	0	PCT	38	BW5	0.87
454	43	149	0.48	0	PCT	19	BW5	0.86
455	49	149	0.14	0	PCT	8	BW5	-0.10
456	49	149	0.89	0	PCT	28	BW5	0.89
457	101	149	0.53	0	PCT	22	09C	-0.92
458	101	149	0.60	0	PCT	24	09C	0.70
459	103	149	0.35	0	PCT	17	02H	0.86
460	103	149	0.95	0	PCT	30	09H	-0.18
461	103	149	0.25	0	PCT	14	09H	0.92
462	80	150	0.26	0	PCT	15	08H	0.96
463	41	151	0.29	0	PCT	18	BW5	0.00
464	43	151	0.41	0	PCT	21	BW5	0.80
465	84	152	0.15	0	PCT	10	BW9	-1.85
466	96	152	0.26	0	PCT	15	09H	-0.94
467	96	152	0.16	0	PCT	11	09H	0.03
468	40	154	0.63	0	PCT	23	BW5	0.86
469	37	155	0.53	0	PCT	25	BW5	-0.84
470	66	156	0.33	0	PCT	17	08C	-0.31
471	37	157	0.45	0	PCT	18	BW5	-0.87
472	37	157	0.27	0	PCT	13	BW5	0.93
473	85	157	0.31	0	PCT	17	09C	-1.09
474	38	158	0.33	0	PCT	15	BW5	0.89
475	86	158	0.49	0	PCT	23	BW9	1.60
476	86	158	0.13	0	PCT	10	09C	-0.09
477	86	158	0.26	0	PCT	16	09C	0.85
478	79	159	0.43	0	PCT	21	BW9	1.76
479	83	159	1.35	0	PCT	36	BW9	1.77
480	24	160	0.32	0	PCT	14	03H	0.76
481	70	160	0.21	0	PCT	13	08C	-0.99
482	70	160	0.51	0	PCT	22	08C	0.82
483	78	160	0.62	0	PCT	25	BW9	1.38
484	80	160	0.91	0	PCT	30	BW9	1.80
485	1	161	0.08	0	PCT	5	07C	0.03
486	76	162	0.22	0	PCT	14	BW1	-1.75
487	76	162	0.46	0	PCT	22	BW9	1.60
488	14	164	0.40	0	PCT	20	04C	-0.36
489	41	167	0.41	0	PCT	20	BW5	0.81
490	45	167	0.65	0	PCT	26	BW5	-0.70

Table D-4
SG32 Service Induced Indications - Wear at Supports - RF16

Count	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1
491	53	169	0.36	0	PCT	19	01C	0.12
492	34	170	0.41	0	PCT	19	BW5	0.89
493	18	174	0.36	0	PCT	19	02C	-0.85
494	20	174	0.22	0	PCT	14	BW5	-0.77
495	1	175	0.36	0	PCT	19	01H	0.00
496	3	175	0.20	0	PCT	13	01H	-0.87
497	11	175	0.84	0	PCT	29	BW1	1.75

Table D-5
SG31 SG32 Service Induced Indications - Historical Volumetrics

Count	SG	Row	Col	Volts	Deg	Ind	Per	Locn	Inch1	Inch2	Length	Width	Ceg
1	31	2	156	0.28	131	VOL	29	TSC	0.55		0.78	0.22	34
2	32	104	30	0.17	291	VOL	19	07C	1.85		0.33	0.19	29

Table E-2
SG31 Plugging List - RF16

Count	SG	Row	Col	Reason
1	31	7	13	Egg-Crate SAI
2	31	28	18	Egg-Crate SAI
3	31	9	19	Egg-Crate SAI
4	31	13	23	Egg-Crate SAI
5	31	11	29	Egg-Crate SAI
6	31	83	31	Egg-Crate SAI
7	31	93	31	Egg-Crate SAI
8	31	90	36	Egg-Crate SAI
9	31	60	38	Batwing SAI
10	31	62	40	Egg-Crate SAI
11	31	17	41	Egg-Crate SAI
12	31	59	41	Egg-Crate SAI
13	31	10	42	Egg-Crate SAI
14	31	5	43	Egg-Crate SAI
15	31	66	44	Egg-Crate SAI
16	31	5	47	Egg-Crate SAI
17	31	6	50	Egg-Crate SAI
18	31	88	50	Egg-Crate SAI
19	31	3	51	Egg-Crate SAI
20	31	88	52	Egg-Crate SAI
21	31	104	52	Egg-Crate SAI
22	31	5	55	Egg-Crate SAI
23	31	79	55	Egg-Crate SAI
24	31	36	56	Egg-Crate SAI
25	31	9	57	Egg-Crate SAI
26	31	19	57	Egg-Crate SAI
27	31	42	58	Egg-Crate SAI
28	31	72	58	Egg-Crate SAI
29	31	88	58	Egg-Crate SAI
30	31	39	59	Egg-Crate SAI
31	31	75	59	Egg-Crate SAI
32	31	99	59	Egg-Crate SAI
33	31	32	60	Egg-Crate SAI
34	31	35	61	Egg-Crate SAI
35	31	17	63	Egg-Crate SAI
36	31	70	64	Egg-Crate SAI
37	31	53	67	Egg-Crate SAI
38	31	92	68	Egg-Crate SAI
39	31	69	71	Egg-Crate SAI
40	31	52	74	Egg-Crate SAI
41	31	90	74	Egg-Crate SAI
42	31	78	78	Egg-Crate SAI
43	31	73	79	Egg-Crate SAI
44	31	85	83	Egg-Crate SAI
45	31	94	88	Tubesheet SAI
46	31	57	93	Egg-Crate SAI
47	31	89	93	Tubesheet SAI
48	31	65	97	Egg-Crate SAI
49	31	118	98	Egg-Crate SAI

Table E-2
SG31 Plugging List - RF16

Count	SG	Row	Col	Reason
50	31	67	99	Egg-Crate SAI
51	31	99	99	Egg-Crate SAI
52	31	84	102	Egg-Crate SAI
53	31	95	103	Egg-Crate SAI
54	31	64	106	Egg-Crate SAI
55	31	98	106	Batwing SAI
56	31	68	108	Egg-Crate SAI
57	31	18	112	Egg-Crate SAI
58	31	51	113	Tubesheet SCI
59	31	27	115	Egg-Crate SAI
60	31	109	115	Egg-Crate SAI
61	31	6	116	Egg-Crate SAI
62	31	120	116	Egg-Crate SAI
63	31	55	117	Egg-Crate SAI
64	31	8	118	Egg-Crate SAI
65	31	80	118	Egg-Crate SAI
66	31	33	119	Egg-Crate SAI
67	31	6	122	Egg-Crate SAI
68	31	18	122	Egg-Crate SAI
69	31	66	122	Egg-Crate SAI
70	31	41	123	Egg-Crate SAI
71	31	46	126	Egg-Crate SAI
72	31	53	127	Egg-Crate SAI
73	31	73	129	Egg-Crate SAI
74	31	16	130	Egg-Crate SAI
75	31	69	131	Egg-Crate SAI
76	31	81	131	Egg-Crate SAI
77	31	14	134	Egg-Crate SAI
78	31	54	134	Egg-Crate SAI
79	31	31	135	Egg-Crate SAI
80	31	85	137	Egg-Crate SAI
81	31	119	137	Batwing SAI
82	31	4	140	Egg-Crate SAI
83	31	6	142	Egg-Crate SAI
84	31	36	144	Egg-Crate SAI
85	31	7	145	Egg-Crate SAI
86	31	106	148	Administrative - CUD
87	31	24	156	Egg-Crate SAI
88	31	26	158	Egg-Crate SAI

Table E-3
SG32 Plugging List - RF16

Count	SG	Row	Col	Reason
1	32	17	25	Eggcrate SAI
2	32	67	33	Eggcrate SAI
3	32	46	36	Eggcrate SAI
4	32	29	37	Batwing SAI
5	32	9	39	Eggcrate SAI
6	32	89	41	Eggcrate SAI
7	32	34	42	Batwing SAI
8	32	74	44	Eggcrate SAI
9	32	53	47	Eggcrate SAI
10	32	31	55	Eggcrate SAI
11	32	46	64	Support wear
12	32	93	67	Eggcrate SAI
13	32	112	68	Eggcrate SAI
14	32	85	87	Eggcrate SAI
15	32	91	87	Eggcrate SAI
16	32	85	97	Eggcrate SAI
17	32	83	103	Eggcrate SAI
18	32	68	104	Eggcrate SAI
19	32	70	104	Eggcrate SAI
20	32	79	105	Eggcrate SAI
21	32	85	109	Eggcrate SAI
22	32	30	114	Eggcrate SAI
23	32	13	115	Eggcrate SAI
24	32	89	117	Eggcrate SAI
25	32	77	119	Batwing SAI
26	32	38	120	Tubesheet SCI
27	32	91	123	Eggcrate SAI
28	32	61	127	Eggcrate SAI
29	32	73	127	Eggcrate SAI
30	32	75	127	Eggcrate SAI
31	32	46	128	Eggcrate SAI
32	32	14	132	Eggcrate SAI
33	32	30	132	Eggcrate SAI
34	32	42	132	Eggcrate SAI
35	32	13	133	Eggcrate SAI
36	32	29	135	Eggcrate SAI
37	32	39	139	Eggcrate SAI
38	32	30	144	Eggcrate SAI
39	32	82	144	Eggcrate SAI
40	32	31	149	Eggcrate SAI