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Technical Specification 6.9.1.10

LR-N14-0232

U.S. Nuclear Regulatory Commission
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Salem Nuclear Generating Station Unit 2
Renewed Facility Operating License No. DPR-75
NRC Docket No. 50-311

Subject: **Steam Generator Tube Inspection Report – Twentieth Refueling Outage (2R20)**

PSEG Nuclear, LLC (PSEG) hereby submits the Steam Generator Tube Inspection Report consistent with the requirements of Technical Specification (TS) 6.9.1.10. The report is being submitted within 180 days after the initial entry into HOT SHUTDOWN following completion of the inspection performed in accordance with Technical Specification 6.8.4.i, "Steam Generator (SG) Program." Salem Unit 2 entered HOT SHUTDOWN (Mode 4) on May 7, 2014, following the completion of its twentieth refueling outage.

The following attachments are included in this letter:

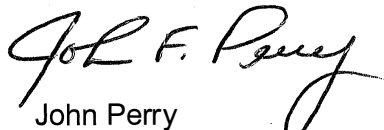
Attachment 1	Steam Generator Tube Inspection Report TS 6.9.1.10
Attachment 2	Salem Unit 2 SG Tube Support Arrangement and Terminology
Attachment 3	2R20 Repairable Tube Status Report
Attachment 4	Total Number and Percentage of Tubes Plugged to Date
Attachment 5	2R20 Nondestructive Examination Techniques
Attachment 6	2R20 Service Induced Indications (AVB Wear)
Attachment 7	2R20 Service Induced Indications (TSP Wear)

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There are no commitments contained in this letter.

Should you have any questions regarding this submittal, please contact Mr. C. Dahms at
(856) 339-5456.

Sincerely,



John Perry
Site Vice President – Salem

Attachments (7)

cc: Mr. W. Dean, Administrator, Region I, NRC
Ms. Carleen Sanders, Project Manager, NRC
NRC Senior Resident Inspector, Salem
Mr. P. Mulligan, Manager IV, NJBNE
Mr. L. Marabella, Corporate Commitment Tracking Coordinator
Mr. T. Cachaza, Salem Commitment Tracking Coordinator
Mr. Milton Washington, Chief Inspector – Occupational Safety and Health Bureau of
Boiler and Pressure Vessel Compliance

**STEAM GENERATOR TUBE INSPECTION REPORT
TS 6.9.1.10**

**PSEG Nuclear LLC
Salem Unit 2**

INTRODUCTION

The original Salem Unit 2 Series 51 steam generators (SG) were replaced with the AREVA Model 61/19T replacement steam generators (RSG) during outage 2R16. The 61 indicates approximately 6,100 square meters of heat transfer surface area per steam generator, the 19 indicates the approximate tube outside diameter (OD) in millimeters, and the "T" corresponds to a triangular tube pitch. The RSGs incorporate state-of-the-art features designed to improve reliability and minimize degradation. The thermally treated Inconel Alloy 690 tubing has a nominal OD of 0.750 inch and nominal wall thickness of 0.043 inch. Industry experience and laboratory testing has shown thermally treated Inconel Alloy 690 to be far more resistant to cracking than the Inconel Alloy 600 tubing found in the original steam generators. There are 5048 tubes within each SG fabricated in a triangular pitch. The tubes are hydraulically expanded the full tubesheet depth and seal welded at the tubesheet primary face. Lateral tube bundle support is accomplished using eight, 410 stainless steel (SS) broached tube support plates (TSP). The TSP holes are of a trefoil design with flat lands. The U-bends are supported with 3 sets of anti-vibration bars (AVBs) bent into a "V" shape. Since a given tube will intersect the same AVB at two separate locations, the AVBs are labeled AV1 through AV6 to segregate the separate hot-leg (HL) and cold-leg (CL) intersections. AV1 is near the upper hot leg TSP, and AV6 is near the upper cold leg TSP. The first 16 rows of tubes have been thermally stress relieved after the bending process to further reduce residual stresses in the U-bend region. Attachment 2 provides a general summary of the Salem Unit 2 SG Tube Support Arrangement and Terminology.

Consistent with Technical Specification (TS) 6.9.1.10, this report is being submitted within 180 days after the initial entry into HOT SHUTDOWN following completion of inspection performed in accordance with the Specification 6.8.4.i, "Steam Generator (SG) Program". Salem Unit 2 entered HOT SHUTDOWN on May 7, 2014.

This report includes:

- a. The scope of inspections performed on each SG,
- 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, and
- g. The results of condition monitoring, including the results of tube pulls and in-situ testing.

STEAM GENERATOR TUBE INSPECTION REPORT TS 6.9.1.10

EXPLANATION OF TERMS

- 2R17: Unit 2 17th Refueling Outage (First inspection with replacement SGs)
- 2R18: Unit 2 18th Refueling Outage
- 2R19: Unit 2 19th Refueling Outage
- 2R20: Unit 2 20th Refueling Outage
- AVB: Anti-Vibration Bar
- CL: Cold Leg
- CM: Condition Monitoring
- DSI: Distorted Support Signal with possible Indication - condition where a possible flaw signal forms within the mix residual of the support structure.
- EPRI: Electric Power Research Institute
- ETSS: Examination Technique Specification Sheet
- FO: Foreign Object
- HL: Hot Leg
- NDE: Non Destructive Examination
- OA: Operational Assessment
- OD: Outside Diameter
- PLP: Possible Loose Part
- PRX: Tube Proximity in U-Bend region – adjacent tubes are possibly closer to each other than the typical
- PWR: Pressurized Water Reactor
- RTS: Return to Service
- SG: Steam Generator
- SGMP: Steam Generator Management Program
- SPT: Support - Designates tube wear at the AVB bundle support/positioning device (Appui)
- TEC: Tube End Coldleg
- TEH: Tube End Hotleg
- TS: Technical Specification
- TSC: Tubesheet Cold Leg
- TSH: Tubesheet Hot Leg
- TTS: Top of Tubesheet
- TSP: Tube Support Plate
- TW: Through-Wall

SG inspections were performed in accordance with TS 6.8.4.i, "Steam Generator Program", during Salem Unit 2 Outage 2R20, which was also the fourth in-service inspection outage with the RSGs. Each applicable reporting requirement of TS 6.9.1.10 is addressed below (items a through g). Item h of TS 6.9.1.10 is not applicable to the Salem Unit 2 RSGs. PSEG has entered this item into the corrective action program to address Westinghouse Model 51 SG legacy information. As a result, by letter dated July 28, 2014 (ADAMS Accession No. ML14210A484), PSEG Nuclear LLC (PSEG) submitted a license amendment request for Salem Nuclear Generating Station, Unit Nos. 1 and 2. This license amendment request included changes to remove item h of TS 6.9.1.10 for Salem Unit 2.

STEAM GENERATOR TUBE INSPECTION REPORT TS 6.9.1.10

a. Technical Specification 6.9.1.10.a, “The scope of inspections performed on each SG”

If not stated otherwise, the following inspections were performed on all four steam generators:

Bobbin Probe

1. A full-length (tube end to tube end) bobbin coil probe inspection was performed on 100% of the in-service tubes.

Array Probe (X-Probe)

1. First 3 outer periphery tubes on both hot leg (HL) and cold leg (CL); and the first 3 rows of no-tube lane on the HL and CL. Inspection extent was from the first tube support (01H or 01C) above the TTS to at least 3 inches below the TTS.
2. Special Interest inspections, including tube locations with historical loose parts and the tubes immediately adjacent to these locations.

Rotating Probe (+Point)

1. All AVB wear locations sized with Bobbin 40% Through-wall (TW) or greater, and other selected AVB wear.
2. All TSP wear locations detected by Bobbin.
3. All locations in a tube with an AVB bundle support/positioning device (with or without wear present), and selected tube locations adjacent to those tubes with AVB bundle support/positioning device (appui).
4. Special Interest Inspections, including all Bobbin “I” code locations

b. Technical Specification 6.9.1.10.b, “Active degradation mechanisms found”

The active degradation mechanisms found during outage 2R20 are AVB wear, TSP wear, and AVB bundle support/positioning device wear (SPT).

c. Technical Specification 6.9.1.10.c, “Nondestructive examination techniques utilized for each degradation mechanism”

Attachment 5 provides the Nondestructive examination techniques utilized for each degradation mechanism.

d. Technical Specification 6.9.1.10.d, “Location, orientation (if linear), and measured sizes (if available) of service induced indications”

STEAM GENERATOR TUBE INSPECTION REPORT TS 6.9.1.10

The service induced indications detected during outage 2R20 are AVB wear, TSP wear, and SPT wear. Attachments 6 and 7 provide information for the AVB and TSP wear service induced indications. The TW sizing provided in Attachments 6 and 7 is from EPRI ETSS 96004.1. In addition to the TSP wear listed in Attachment 7, bobbin detected a DSI in SG 24, tube R104 C66, TSP 06C +0.40. When this location was inspected with rotating probe, it was confirmed as a small TSP wear of approximately 5% through-wall. The only occurrence of SPT wear was in SG 22, tube R62-C112 at AV3. SPT wear is sized using rotating probe (+Point), and the depth sizing was 20% through-wall.

e. Technical Specification 6.9.1.10.e, “Number of tubes plugged during the inspection outage for each active degradation mechanism”

Attachment 3 provides the number of tubes plugged during the inspection outage for each active degradation mechanism.

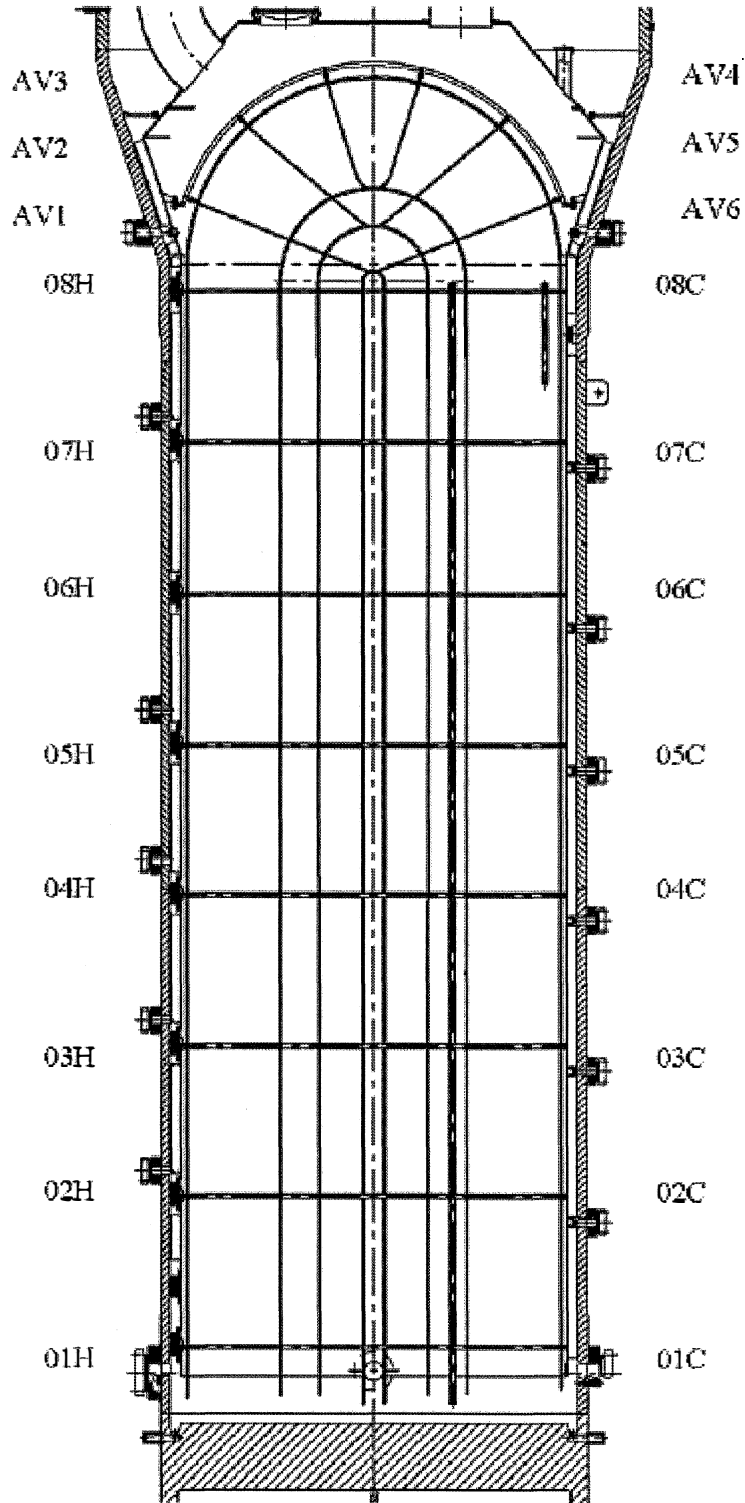
f. Technical Specification 6.9.1.10.f, “Total number and percentage of tubes plugged to date”

Attachment 4 provides the total number and percentage of tubes plugged to date.

g. Technical Specification 6.9.1.10.g, “The results of condition monitoring, including the results of tube pulls and in-situ testing”

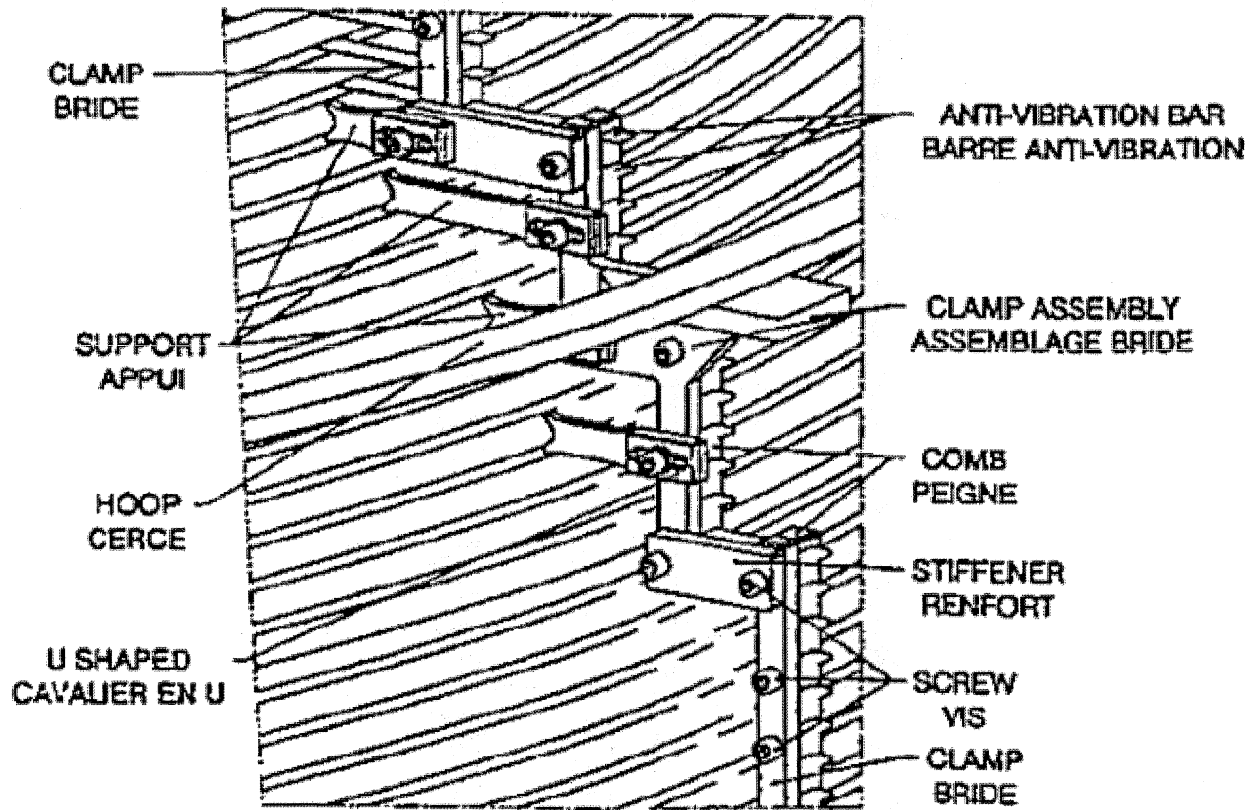
The largest depth of degradation detected during 2R20 for AVB wear was 42% TW, for TSP wear was 24% TW, and for SPT wear was 20% TW (reference response to 6.9.1.10.d for further details). All tubes inspected met the tube integrity performance criteria in TS 6.8.4.i.b. No tubes required in-situ pressure testing, and no tube pulls were required.

SALEM UNIT 2 SG TUBE SUPPORT ARRANGEMENT AND TERMINOLOGY



SALEM UNIT 2 SG TUBE SUPPORT ARRANGEMENT AND TERMINOLOGY

AVB bundle Support/Positioning Devices (Typical Configuration)



Note: the structure (SPT) that caused wear on the tube is labeled "Support" or "Appui" in the above diagram.

2R20 REPAIRABLE TUBES STATUS REPORT

Location	Tube Degradation	Steam Generator				Total
		21	22	23	24	
AVB	Wear	55	32	6	35	128
TSP	Wear	1	1	0	2	4
Appui	Wear	0	1	0	0	1
Total Tubes Plugged		56	34	6	37	133

TOTAL NUMBER AND PERCENTAGE OF TUBES PLUGGED TO DATE

Salem Unit 2 Steam Generator Tube Plugging Status					
	SG 21	SG 22	SG 23	SG 24	Total
Pre Service	0	0	0	0	0
2R17	1	3	1	5	10
2R18	2	5	1	8	16
2R19	29	23	0	20	72
2R20	56	34	6	37	133
Total Tubes Plugged	88	65	8	70	231
Total Percentage	1.743%	1.288%	0.158%	1.387%	1.144%

2R20 NONDESTRUCTIVE EXAMINATION TECHNIQUES

Technique		Industry Qualification	Damage Mechanism	Demonstrated Applicability	Extended Applicability	Site-Specific Review Deemed Acceptable	
						Detection	Sizing
1	Bobbin	96004.1 Revision 13	Wear	AVB and TSP	AVB Support Structure	Yes	Yes AVB &TSP
2	Bobbin	96004.3 Revision 13	Wear	AVB and TSP	None	Yes	Yes
3	Bobbin	27091.2 Revision 1	PLP Wear	PLP Wear (part not present)	Detection of PLP wear with Part Present	Yes	N/A Size with RPC
4	Bobbin	13091.1 Revision 0	Wear	Tube to Tube	None	Yes	N/A Size with RPC
5	+Point™	96910.1 Revision 10	Wear	Broached supports	None	Yes	Yes
6	+Point™	21998.1 Revision 4	Volumetric	Freespan	None	Yes	Yes
7	+Point™	27901.1 27902.1 27903.1 27904.1 27905.1 27906.1 27907.1 (All Rev. 1)	PLP Wear	Freespan, TSP and Expansion Transition PLP Wear Morphology Dependent (part not present)	Detection of Foreign Material. Sizing of PLP wear when part is present (Not for continued service) Sizing of wear associated with APPUI structure in an adjacent tube however (Not for continued service)	Yes	Yes

2R20 NONDESTRUCTIVE EXAMINATION TECHNIQUES

Technique		Industry Qualification	Damage Mechanism	Demonstrated Applicability	Extended Applicability	Site-Specific Review Deemed Acceptable	
						Detection	Sizing
8	+Point™	10908.4 Revision 1	Wear	AVB	Detection of AVB Support Structure Wear (APPUI)	Yes	Yes AVB wear only
9	+Point™	13901.1 Revision 1	Wear	Tube to Tube	N/A	Yes	Yes
10	+Point™	None	Wear	APPUI Structure	N/A	Yes	Yes
11	Array	20400.1 Revision 5	Circ ODSCC	Top of Tubesheet and Expansion Transitions.	Volumetric degradation (PLP Wear) at Top-of-Tubesheet and Freespan. Detection of Foreign Material	Yes	N/A
12	Array	11956.3 11956.4 Both Rev 2	Wear	Broached Supports	AVB Wear	Yes	Yes TSP wear only

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	14	18	6	AV6
21	17	11	6	AV6
21	17	15	7	AV6
21	37	33	6	AV2
21	37	33	4	AV5
21	39	69	5	AV2
21	46	46	6	AV3
21	48	70	9	AV3
21	50	52	8	AV5
21	51	41	6	AV4
21	51	63	8	AV2
21	51	63	4	AV5
21	51	73	10	AV4
21	51	73	5	AV5
21	52	62	4	AV2
21	52	78	7	AV5
21	53	53	16	AV2
21	53	53	12	AV3
21	53	53	6	AV4
21	53	53	16	AV5
21	53	57	10	AV4
21	53	57	5	AV5
21	53	79	9	AV4
21	53	95	4	AV3
21	54	72	10	AV2
21	54	76	9	AV3
21	54	76	11	AV4
21	54	76	10	AV5
21	54	82	12	AV3
21	54	82	13	AV4
21	54	88	8	AV2
21	55	35	7	AV4
21	55	41	7	AV4
21	55	83	5	AV4
21	55	83	6	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	56	36	9	AV3
21	56	64	7	AV3
21	57	49	5	AV4
21	58	48	9	AV4
21	58	64	6	AV2
21	58	64	10	AV3
21	58	64	10	AV4
21	58	64	11	AV5
21	58	76	15	AV3
21	58	76	21	AV4
21	58	76	19	AV5
21	59	63	7	AV5
21	59	65	6	AV2
21	59	65	5	AV5
21	59	79	8	AV4
21	60	52	11	AV4
21	60	52	12	AV5
21	61	59	5	AV5
21	61	63	5	AV3
21	61	63	6	AV4
21	61	65	5	AV3
21	61	65	7	AV4
21	61	65	9	AV5
21	62	62	5	AV4
21	62	64	14	AV2
21	62	64	6	AV4
21	62	72	9	AV5
21	63	77	4	AV3
21	64	56	7	AV4
21	64	56	4	AV5
21	64	66	11	AV2
21	64	66	24	AV3
21	64	66	26	AV4
21	64	66	30	AV5
21	64	66	22	AV6
21	65	53	10	AV3
21	65	53	6	AV4
21	65	53	4	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	65	59	5	AV4
21	65	61	10	AV2
21	65	61	6	AV3
21	65	61	6	AV4
21	65	61	7	AV5
21	65	75	14	AV2
21	65	75	26	AV3
21	65	75	34	AV4
21	65	75	32	AV5
21	66	48	14	AV3
21	66	48	22	AV4
21	66	48	8	AV5
21	66	52	12	AV3
21	66	52	16	AV4
21	66	52	5	AV5
21	66	58	8	AV2
21	66	58	12	AV3
21	66	58	12	AV4
21	66	58	6	AV5
21	66	60	10	AV2
21	66	60	29	AV3
21	66	60	25	AV4
21	66	60	13	AV5
21	66	64	16	AV2
21	66	64	13	AV3
21	66	64	30	AV4
21	66	64	28	AV5
21	66	64	8	AV6
21	66	68	18	AV3
21	66	68	21	AV4
21	66	68	6	AV5
21	67	53	11	AV2
21	67	53	18	AV3
21	67	53	20	AV4
21	67	55	7	AV3
21	67	55	7	AV4
21	67	61	9	AV3
21	67	63	8	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	67	63	11	AV5
21	67	67	6	AV2
21	67	67	15	AV3
21	67	67	14	AV4
21	68	58	6	AV2
21	68	58	8	AV3
21	68	58	14	AV4
21	68	58	12	AV5
21	68	60	15	AV2
21	68	60	32	AV3
21	68	60	27	AV4
21	68	60	29	AV5
21	68	62	16	AV2
21	68	62	29	AV3
21	68	62	31	AV4
21	68	62	22	AV5
21	68	64	17	AV2
21	68	64	6	AV3
21	68	64	21	AV4
21	68	64	19	AV5
21	69	49	5	AV4
21	69	51	14	AV3
21	69	51	17	AV4
21	69	57	6	AV5
21	69	59	4	AV3
21	69	61	7	AV2
21	69	61	14	AV3
21	69	61	21	AV4
21	69	61	20	AV5
21	69	61	8	AV6
21	69	63	11	AV2
21	69	63	23	AV3
21	69	63	21	AV4
21	69	63	19	AV5
21	69	65	6	AV1
21	69	65	20	AV3
21	69	65	14	AV4
21	69	67	6	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	69	67	10	AV4
21	69	73	20	AV2
21	69	73	26	AV3
21	69	73	30	AV4
21	69	73	21	AV5
21	69	75	24	AV2
21	69	75	28	AV3
21	69	75	31	AV4
21	69	75	16	AV5
21	70	48	15	AV3
21	70	48	19	AV4
21	70	52	11	AV4
21	70	52	11	AV5
21	70	54	10	AV2
21	70	54	17	AV3
21	70	54	17	AV4
21	70	56	16	AV2
21	70	56	18	AV3
21	70	56	17	AV4
21	70	56	16	AV5
21	70	58	5	AV3
21	70	58	5	AV4
21	70	60	7	AV4
21	70	62	7	AV2
21	70	62	10	AV3
21	70	62	11	AV4
21	70	62	6	AV5
21	70	66	6	AV3
21	70	66	6	AV4
21	70	66	9	AV5
21	71	51	15	AV3
21	71	51	16	AV4
21	71	59	12	AV2
21	71	59	7	AV3
21	71	59	12	AV4
21	71	63	9	AV4
21	71	63	8	AV5
21	71	65	4	AV2

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	71	65	20	AV3
21	71	65	13	AV4
21	71	65	8	AV5
21	71	65	7	AV6
21	71	69	16	AV2
21	71	69	17	AV3
21	71	69	31	AV4
21	71	69	28	AV5
21	72	54	18	AV3
21	72	54	18	AV4
21	72	54	14	AV5
21	72	54	4	AV6
21	72	56	6	AV2
21	72	56	26	AV3
21	72	56	26	AV4
21	72	56	23	AV5
21	72	58	10	AV4
21	72	58	5	AV5
21	72	60	8	AV4
21	72	64	11	AV2
21	72	64	22	AV3
21	72	64	22	AV4
21	72	64	14	AV5
21	72	70	6	AV2
21	72	70	18	AV3
21	72	70	22	AV4
21	72	70	6	AV5
21	73	55	11	AV2
21	73	55	10	AV3
21	73	55	10	AV4
21	73	55	7	AV5
21	73	57	5	AV2
21	73	57	11	AV3
21	73	57	4	AV5
21	73	59	10	AV2
21	73	59	21	AV3
21	73	59	27	AV4
21	73	59	7	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	73	61	14	AV2
21	73	61	19	AV3
21	73	61	39	AV4
21	73	61	35	AV5
21	73	63	8	AV3
21	73	63	6	AV4
21	73	63	7	AV5
21	73	65	23	AV3
21	73	65	17	AV4
21	73	65	15	AV5
21	73	67	15	AV3
21	73	67	7	AV4
21	74	56	4	AV4
21	74	56	9	AV5
21	74	58	10	AV2
21	74	58	32	AV3
21	74	58	37	AV4
21	74	58	31	AV5
21	74	60	10	AV2
21	74	60	13	AV3
21	74	60	11	AV4
21	74	60	13	AV5
21	74	62	8	AV1
21	74	62	9	AV2
21	74	62	27	AV3
21	74	62	34	AV4
21	74	62	13	AV5
21	74	64	6	AV3
21	74	64	6	AV4
21	74	70	14	AV2
21	74	70	23	AV3
21	74	70	26	AV4
21	74	70	14	AV5
21	75	57	12	AV3
21	75	57	16	AV4
21	75	57	14	AV5
21	75	59	19	AV2
21	75	59	15	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	75	59	17	AV4
21	75	59	12	AV5
21	75	59	7	AV6
21	75	63	7	AV2
21	75	63	20	AV3
21	75	63	22	AV4
21	75	63	27	AV5
21	75	67	15	AV2
21	75	67	16	AV3
21	75	67	22	AV4
21	75	67	8	AV5
21	75	69	5	AV2
21	75	69	19	AV3
21	75	69	18	AV4
21	75	69	19	AV5
21	75	71	13	AV4
21	76	50	5	AV6
21	76	54	20	AV3
21	76	54	37	AV4
21	76	54	29	AV5
21	76	54	8	AV6
21	76	56	5	AV3
21	76	56	11	AV4
21	76	56	8	AV5
21	76	58	10	AV2
21	76	58	27	AV3
21	76	58	35	AV4
21	76	58	31	AV5
21	76	60	6	AV2
21	76	60	24	AV3
21	76	60	12	AV4
21	76	60	12	AV5
21	76	62	8	AV2
21	76	62	10	AV3
21	76	62	15	AV4
21	76	62	10	AV5
21	76	62	7	AV6
21	76	64	13	AV1

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	76	64	32	AV2
21	76	64	17	AV3
21	76	64	16	AV4
21	76	64	13	AV5
21	76	66	10	AV3
21	76	66	6	AV4
21	76	66	6	AV5
21	76	68	13	AV3
21	76	68	16	AV4
21	77	55	9	AV4
21	77	57	9	AV2
21	77	57	20	AV3
21	77	57	15	AV4
21	77	57	23	AV5
21	77	57	7	AV6
21	77	59	23	AV2
21	77	59	28	AV3
21	77	59	38	AV4
21	77	59	37	AV5
21	77	61	7	AV2
21	77	61	24	AV3
21	77	61	35	AV4
21	77	61	27	AV5
21	77	65	9	AV4
21	77	67	7	AV2
21	77	67	5	AV3
21	77	67	7	AV4
21	77	71	6	AV3
21	78	52	23	AV3
21	78	52	33	AV4
21	78	52	21	AV5
21	78	54	25	AV2
21	78	54	33	AV3
21	78	54	25	AV4
21	78	60	12	AV2
21	78	60	11	AV3
21	78	60	9	AV4
21	78	60	14	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	78	62	20	AV2
21	78	62	23	AV3
21	78	62	20	AV4
21	78	62	8	AV5
21	78	62	4	AV6
21	78	76	7	AV2
21	78	76	6	AV3
21	78	76	5	AV4
21	79	57	11	AV3
21	79	57	10	AV4
21	79	59	14	AV3
21	79	59	14	AV5
21	79	61	13	AV2
21	79	61	17	AV3
21	79	61	29	AV4
21	79	61	13	AV5
21	79	63	9	AV2
21	79	63	12	AV3
21	79	63	18	AV4
21	79	63	8	AV5
21	79	69	25	AV2
21	79	69	36	AV3
21	79	69	32	AV4
21	79	69	14	AV5
21	80	60	17	AV2
21	80	60	20	AV3
21	80	60	9	AV4
21	80	60	15	AV5
21	80	62	17	AV2
21	80	62	27	AV3
21	80	62	32	AV4
21	80	62	26	AV5
21	80	62	8	AV6
21	80	64	6	AV2
21	81	57	6	AV2
21	81	57	15	AV3
21	81	59	8	AV1
21	81	59	24	AV2

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	81	59	13	AV3
21	81	59	26	AV4
21	81	59	24	AV5
21	81	59	4	AV6
21	81	61	8	AV2
21	81	61	24	AV3
21	81	61	32	AV4
21	81	61	31	AV5
21	81	63	4	AV1
21	81	63	22	AV2
21	81	63	30	AV3
21	81	63	24	AV4
21	81	63	17	AV5
21	81	63	10	AV6
21	81	65	10	AV2
21	81	65	38	AV3
21	81	65	26	AV4
21	81	65	24	AV5
21	81	67	17	AV2
21	81	67	29	AV3
21	81	67	26	AV4
21	81	67	25	AV5
21	81	67	8	AV6
21	82	58	8	AV2
21	82	58	13	AV3
21	82	58	7	AV4
21	82	60	15	AV2
21	82	60	30	AV3
21	82	60	33	AV4
21	82	60	31	AV5
21	82	62	17	AV2
21	82	62	34	AV3
21	82	62	35	AV4
21	82	62	26	AV5
21	82	64	7	AV4
21	82	68	16	AV2
21	82	68	21	AV4
21	82	68	19	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	82	72	7	AV3
21	82	72	7	AV4
21	82	74	17	AV4
21	82	74	24	AV5
21	82	74	4	AV6
21	83	57	6	AV3
21	83	57	4	AV5
21	83	59	24	AV2
21	83	59	31	AV3
21	83	59	36	AV4
21	83	59	29	AV5
21	83	63	14	AV1
21	83	63	18	AV2
21	83	63	36	AV3
21	83	63	32	AV4
21	83	63	24	AV5
21	83	67	16	AV2
21	83	67	15	AV3
21	83	67	20	AV4
21	83	67	8	AV5
21	84	58	14	AV3
21	84	58	20	AV4
21	84	58	20	AV5
21	84	58	10	AV6
21	84	62	6	AV2
21	84	62	20	AV3
21	84	62	19	AV4
21	84	62	13	AV5
21	84	80	15	AV4
21	84	80	20	AV5
21	85	57	27	AV2
21	85	57	36	AV3
21	85	57	35	AV4
21	85	57	7	AV5
21	85	63	12	AV3
21	85	67	23	AV2
21	85	67	35	AV3
21	85	67	27	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	85	67	19	AV5
21	86	56	6	AV5
21	86	62	10	AV4
21	86	62	8	AV5
21	86	66	10	AV1
21	86	66	28	AV2
21	86	66	23	AV3
21	86	66	22	AV4
21	86	66	15	AV5
21	86	66	8	AV6
21	87	61	9	AV2
21	87	61	16	AV3
21	87	61	11	AV4
21	87	61	13	AV5
21	87	65	11	AV2
21	87	65	8	AV3
21	87	65	22	AV4
21	87	65	6	AV5
21	88	56	10	AV4
21	88	60	20	AV2
21	88	60	31	AV3
21	88	60	21	AV4
21	88	60	7	AV5
21	88	62	18	AV2
21	88	62	30	AV3
21	88	62	31	AV4
21	88	62	16	AV5
21	88	66	5	AV6
21	88	72	8	AV4
21	89	57	5	AV2
21	89	57	7	AV3
21	89	57	18	AV4
21	89	57	10	AV5
21	89	61	14	AV1
21	89	61	22	AV2
21	89	61	20	AV3
21	89	61	16	AV4
21	89	61	24	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	89	61	11	AV6
21	89	73	10	AV3
21	89	73	18	AV4
21	89	73	7	AV5
21	90	56	7	AV3
21	90	56	22	AV4
21	90	60	10	AV2
21	90	60	7	AV5
21	90	62	8	AV3
21	90	62	12	AV4
21	90	64	7	AV4
21	90	64	10	AV5
21	90	74	4	AV2
21	90	74	7	AV3
21	91	57	7	AV2
21	91	57	10	AV3
21	91	57	8	AV4
21	91	59	22	AV2
21	91	59	18	AV3
21	91	59	21	AV4
21	91	59	19	AV5
21	91	61	17	AV5
21	91	63	17	AV4
21	91	63	19	AV5
21	91	67	7	AV4
21	91	71	6	AV2
21	92	58	22	AV3
21	92	58	24	AV4
21	92	58	7	AV6
21	92	62	7	AV5
21	92	66	13	AV4
21	92	66	6	AV5
21	92	74	25	AV2
21	92	74	26	AV3
21	92	74	9	AV4
21	92	74	9	AV5
21	93	51	6	AV3
21	93	57	14	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	93	61	9	AV4
21	93	61	8	AV5
21	93	63	26	AV2
21	93	63	22	AV3
21	93	63	23	AV4
21	93	63	18	AV5
21	93	67	7	AV4
21	93	73	10	AV5
21	94	62	19	AV2
21	94	62	24	AV3
21	94	62	16	AV4
21	94	62	23	AV5
21	94	62	8	AV6
21	94	64	12	AV2
21	94	64	13	AV3
21	94	64	7	AV4
21	94	64	6	AV5
21	94	68	11	AV2
21	94	68	30	AV4
21	94	68	24	AV5
21	95	59	25	AV2
21	95	59	33	AV3
21	95	59	36	AV4
21	95	59	18	AV5
21	95	61	8	AV3
21	95	67	9	AV2
21	95	67	6	AV3
21	96	50	6	AV4
21	96	50	9	AV5
21	96	58	34	AV2
21	96	58	37	AV3
21	96	58	30	AV4
21	96	60	6	AV2
21	96	60	27	AV4
21	96	60	21	AV5
21	96	62	14	AV2
21	96	62	23	AV3
21	96	62	30	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	96	72	9	AV3
21	96	78	5	AV1
21	96	78	5	AV3
21	96	78	11	AV4
21	97	53	6	AV2
21	97	53	6	AV5
21	97	57	24	AV2
21	97	57	26	AV3
21	97	57	26	AV4
21	97	57	19	AV5
21	97	59	15	AV3
21	97	59	30	AV4
21	97	59	35	AV5
21	97	59	20	AV6
21	97	61	21	AV2
21	97	61	37	AV3
21	97	61	19	AV4
21	97	63	7	AV4
21	97	65	6	AV3
21	97	67	10	AV2
21	97	67	18	AV3
21	97	67	27	AV4
21	97	67	12	AV5
21	98	50	8	AV4
21	98	58	27	AV2
21	98	58	37	AV3
21	98	58	26	AV4
21	98	58	16	AV5
21	98	58	13	AV6
21	98	60	23	AV2
21	98	60	35	AV3
21	98	60	23	AV4
21	98	76	4	AV1
21	98	76	20	AV2
21	98	76	9	AV3
21	98	78	6	AV2
21	99	57	7	AV4
21	99	59	27	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
21	99	59	10	AV5
21	99	59	16	AV6
21	99	65	18	AV3
21	99	65	11	AV4
21	99	67	11	AV2
21	99	67	5	AV3
21	99	69	8	AV2
21	99	73	10	AV2
21	99	73	16	AV3
21	99	73	4	AV5
21	100	56	11	AV5
21	100	58	12	AV4
21	100	58	32	AV5
21	100	58	14	AV6
21	100	62	5	AV5
21	100	66	6	AV3
21	100	78	9	AV1
21	100	78	2	AV3
21	101	59	21	AV3
21	101	59	23	AV4
21	101	59	6	AV6
21	101	67	10	AV1
21	101	67	30	AV2
21	101	67	33	AV3
21	101	67	26	AV4
21	102	56	7	AV5
21	103	57	7	AV4
22	47	25	6	AV3
22	47	97	9	AV4
22	48	12	9	AV4
22	49	49	6	AV3
22	49	55	4	AV4
22	49	61	5	AV4
22	49	63	5	AV4
22	49	65	9	AV4
22	50	60	9	AV4
22	50	96	6	AV4
22	51	47	5	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	52	48	6	AV4
22	52	74	8	AV5
22	52	80	6	AV5
22	53	61	4	AV3
22	53	77	9	AV4
22	55	81	7	AV5
22	55	83	4	AV4
22	57	55	21	AV2
22	57	55	30	AV3
22	57	55	24	AV4
22	57	55	11	AV5
22	57	59	10	AV3
22	57	61	5	AV2
22	58	52	7	AV4
22	58	62	13	AV2
22	58	62	10	AV4
22	58	62	8	AV5
22	59	61	6	AV2
22	59	61	6	AV3
22	59	61	9	AV4
22	59	61	15	AV5
22	60	48	6	AV4
22	60	58	9	AV3
22	60	58	6	AV4
22	60	62	9	AV4
22	60	62	7	AV5
22	60	66	11	AV4
22	60	74	19	AV2
22	60	74	7	AV3
22	60	74	16	AV4
22	60	74	15	AV5
22	60	78	4	AV2
22	61	61	16	AV3
22	61	61	14	AV4
22	61	61	17	AV5
22	61	65	7	AV4
22	62	52	10	AV3
22	62	52	28	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	62	52	25	AV5
22	62	60	8	AV2
22	62	60	12	AV3
22	62	60	13	AV4
22	62	62	17	AV2
22	62	62	17	AV3
22	62	62	23	AV4
22	62	62	19	AV5
22	62	74	12	AV2
22	62	74	8	AV3
22	62	74	16	AV4
22	62	74	14	AV5
22	63	63	18	AV2
22	63	63	19	AV3
22	63	63	7	AV4
22	63	65	6	AV2
22	63	65	6	AV4
22	64	64	21	AV2
22	64	64	11	AV3
22	64	64	21	AV5
22	64	64	9	AV6
22	65	57	5	AV3
22	65	61	9	AV2
22	65	61	10	AV4
22	65	61	10	AV5
22	65	63	6	AV3
22	65	63	13	AV4
22	65	67	13	AV3
22	65	67	25	AV4
22	65	67	18	AV5
22	65	69	4	AV4
22	65	75	7	AV2
22	65	75	12	AV3
22	65	75	10	AV4
22	65	77	4	AV4
22	66	60	7	AV2
22	66	60	24	AV3
22	66	60	20	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	66	60	11	AV5
22	66	64	6	AV3
22	66	64	15	AV5
22	66	74	4	AV2
22	66	80	6	AV2
22	66	80	6	AV3
22	66	80	7	AV4
22	67	49	11	AV3
22	67	57	6	AV2
22	67	57	11	AV3
22	67	61	16	AV2
22	67	61	21	AV3
22	67	61	17	AV4
22	67	61	22	AV5
22	67	63	22	AV2
22	67	63	23	AV3
22	67	63	10	AV4
22	67	63	29	AV5
22	67	65	9	AV4
22	68	46	5	AV3
22	68	46	9	AV4
22	68	46	8	AV5
22	68	60	22	AV3
22	68	60	16	AV4
22	68	60	11	AV5
22	68	64	17	AV2
22	68	64	14	AV3
22	68	64	10	AV5
22	68	78	5	AV3
22	68	78	8	AV4
22	68	78	4	AV5
22	69	63	18	AV2
22	69	63	13	AV3
22	69	63	13	AV4
22	69	63	7	AV5
22	69	67	11	AV2
22	69	67	29	AV3
22	69	67	35	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	69	67	26	AV5
22	69	69	7	AV4
22	70	62	6	AV2
22	70	62	14	AV4
22	70	62	19	AV5
22	70	64	22	AV2
22	70	64	18	AV3
22	70	64	16	AV5
22	70	80	5	AV2
22	70	80	7	AV3
22	70	80	6	AV4
22	71	51	8	AV2
22	71	51	7	AV3
22	71	63	6	AV2
22	71	63	22	AV3
22	71	63	23	AV4
22	71	65	10	AV2
22	71	65	16	AV3
22	71	65	21	AV4
22	71	65	18	AV5
22	71	75	6	AV2
22	72	58	16	AV2
22	72	58	14	AV3
22	72	58	23	AV4
22	72	58	5	AV5
22	72	62	7	AV1
22	72	62	20	AV2
22	72	62	32	AV3
22	72	62	35	AV4
22	72	62	22	AV5
22	72	64	10	AV2
22	72	64	18	AV3
22	72	64	12	AV5
22	72	66	7	AV3
22	72	66	3	AV5
22	72	68	19	AV3
22	72	68	19	AV4
22	72	82	6	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	73	61	27	AV2
22	73	61	34	AV3
22	73	61	38	AV4
22	73	61	26	AV5
22	73	63	30	AV3
22	73	63	20	AV4
22	73	63	13	AV5
22	73	65	5	AV2
22	73	65	10	AV3
22	73	65	17	AV4
22	73	65	16	AV5
22	73	75	34	AV2
22	73	75	31	AV3
22	73	75	17	AV4
22	73	75	16	AV5
22	73	77	10	AV4
22	73	77	20	AV5
22	74	48	9	AV3
22	74	48	7	AV4
22	74	64	26	AV2
22	74	64	28	AV3
22	74	64	15	AV4
22	74	64	30	AV5
22	74	66	4	AV2
22	74	66	8	AV3
22	75	55	29	AV3
22	75	55	34	AV4
22	75	55	29	AV5
22	75	61	10	AV3
22	75	61	9	AV4
22	75	65	6	AV2
22	75	65	27	AV3
22	75	65	32	AV4
22	75	65	23	AV5
22	76	54	12	AV3
22	76	54	25	AV4
22	76	54	13	AV5
22	76	60	15	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	76	60	18	AV4
22	76	72	19	AV3
22	76	72	34	AV4
22	76	72	10	AV5
22	77	63	9	AV2
22	77	63	22	AV3
22	77	63	22	AV4
22	77	65	4	AV2
22	77	65	7	AV3
22	77	65	14	AV4
22	77	65	15	AV5
22	77	75	8	AV5
22	77	79	16	AV3
22	77	79	11	AV4
22	78	58	17	AV2
22	78	58	32	AV3
22	78	58	31	AV4
22	78	58	27	AV5
22	78	60	8	AV2
22	78	60	27	AV3
22	78	60	26	AV4
22	78	60	10	AV5
22	79	59	9	AV2
22	79	59	13	AV4
22	79	59	24	AV5
22	79	63	20	AV3
22	79	63	21	AV4
22	79	67	16	AV3
22	79	67	33	AV4
22	79	67	24	AV5
22	79	73	8	AV5
22	80	60	17	AV2
22	80	60	31	AV3
22	80	60	29	AV4
22	80	60	9	AV5
22	80	62	13	AV4
22	80	64	4	AV2
22	80	64	10	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	80	78	13	AV4
22	80	78	16	AV5
22	81	57	17	AV2
22	81	57	20	AV3
22	81	57	20	AV4
22	81	57	17	AV5
22	81	65	21	AV3
22	81	65	18	AV4
22	81	65	16	AV5
22	81	69	14	AV2
22	81	69	24	AV3
22	81	69	7	AV4
22	81	69	17	AV5
22	82	56	18	AV4
22	82	56	20	AV5
22	82	60	22	AV2
22	82	60	33	AV3
22	82	60	33	AV4
22	82	60	27	AV5
22	82	60	7	AV6
22	82	66	4	AV1
22	82	66	23	AV2
22	82	66	37	AV3
22	82	66	30	AV4
22	82	66	34	AV5
22	82	74	19	AV2
22	82	74	10	AV3
22	83	69	6	AV2
22	84	58	7	AV2
22	84	58	16	AV3
22	84	58	9	AV4
22	84	62	37	AV2
22	84	62	16	AV3
22	84	62	29	AV4
22	85	61	8	AV4
22	85	63	11	AV3
22	85	63	5	AV4
22	85	67	28	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	85	67	39	AV4
22	85	67	35	AV5
22	85	69	11	AV3
22	85	69	11	AV4
22	85	71	10	AV3
22	86	52	7	AV4
22	86	54	22	AV3
22	86	54	34	AV4
22	86	54	28	AV5
22	86	56	6	AV1
22	86	56	10	AV2
22	86	56	25	AV4
22	86	56	29	AV5
22	86	64	7	AV4
22	86	64	16	AV5
22	86	64	6	AV6
22	87	47	8	AV4
22	87	61	30	AV2
22	87	61	37	AV3
22	87	61	36	AV4
22	87	61	27	AV5
22	87	63	10	AV3
22	87	63	12	AV4
22	87	63	16	AV5
22	88	62	10	AV3
22	88	62	33	AV4
22	88	62	32	AV5
22	88	66	7	AV3
22	88	72	7	AV2
22	88	72	4	AV3
22	88	74	15	AV2
22	88	78	6	AV5
22	89	51	7	AV3
22	89	53	6	AV2
22	89	53	20	AV4
22	89	55	18	AV2
22	89	55	31	AV3
22	89	55	26	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	89	59	5	AV1
22	89	59	23	AV2
22	89	59	18	AV3
22	89	59	9	AV4
22	89	59	10	AV5
22	89	61	15	AV2
22	89	61	21	AV3
22	89	61	10	AV5
22	89	63	10	AV2
22	89	63	18	AV3
22	89	63	14	AV4
22	90	54	9	AV3
22	90	58	7	AV3
22	90	60	9	AV2
22	90	62	20	AV1
22	90	62	30	AV2
22	90	62	29	AV3
22	90	62	28	AV4
22	91	51	6	AV5
22	91	59	12	AV2
22	91	59	14	AV3
22	91	59	22	AV4
22	91	59	23	AV5
22	91	59	4	AV6
22	92	50	14	AV3
22	92	50	24	AV4
22	92	52	14	AV1
22	92	52	31	AV2
22	92	52	10	AV5
22	92	54	14	AV2
22	92	54	26	AV4
22	92	54	29	AV5
22	92	70	5	AV2
22	92	70	19	AV3
22	92	70	9	AV5
22	93	49	10	AV4
22	93	57	6	AV2
22	93	57	16	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	93	57	19	AV4
22	93	57	9	AV5
22	93	59	12	AV2
22	93	59	7	AV3
22	93	59	18	AV4
22	93	65	10	AV4
22	93	65	24	AV5
22	93	67	13	AV4
22	93	67	11	AV5
22	93	69	11	AV3
22	93	69	5	AV5
22	94	56	7	AV2
22	94	56	14	AV4
22	94	56	5	AV5
22	94	62	4	AV4
22	95	53	8	AV2
22	95	55	9	AV2
22	95	55	25	AV3
22	95	55	8	AV4
22	95	57	22	AV4
22	95	57	24	AV5
22	95	59	24	AV2
22	95	59	33	AV3
22	95	59	29	AV4
22	95	59	14	AV5
22	95	59	4	AV6
22	95	61	7	AV2
22	95	61	28	AV3
22	95	61	22	AV4
22	96	58	5	AV2
22	96	60	10	AV2
22	96	62	5	AV1
22	96	62	31	AV2
22	96	62	30	AV3
22	96	62	37	AV4
22	96	62	13	AV5
22	97	51	7	AV3
22	97	51	25	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
22	97	51	29	AV5
22	97	57	11	AV3
22	97	57	19	AV4
22	97	57	13	AV5
22	97	71	10	AV5
22	98	50	23	AV2
22	98	50	10	AV4
22	98	52	12	AV2
22	98	56	6	AV2
22	98	58	21	AV3
22	98	58	21	AV4
22	98	58	7	AV5
22	98	60	8	AV4
22	98	60	5	AV5
22	98	62	8	AV5
22	98	66	5	AV4
22	98	66	14	AV5
22	98	78	24	AV2
22	98	78	17	AV3
22	98	78	5	AV4
22	98	78	10	AV5
22	98	78	4	AV6
22	99	51	13	AV2
22	99	51	20	AV3
22	99	51	30	AV4
22	99	51	27	AV5
22	99	59	13	AV2
22	99	59	15	AV4
22	99	59	27	AV5
22	99	59	8	AV6
22	101	73	6	AV2
23	46	12	5	AV4
23	54	48	4	AV2
23	54	50	9	AV3
23	54	50	9	AV4
23	54	82	7	AV3
23	54	82	5	AV4
23	58	82	5	AV1

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
23	58	82	8	AV3
23	58	82	10	AV4
23	58	82	10	AV5
23	59	73	7	AV3
23	59	73	9	AV4
23	59	73	4	AV5
23	59	75	6	AV3
23	59	75	4	AV4
23	59	75	4	AV5
23	59	75	2	AV6
23	63	51	6	AV3
23	63	51	5	AV4
23	63	81	8	AV5
23	64	74	12	AV2
23	64	74	24	AV3
23	64	74	28	AV4
23	64	74	26	AV5
23	67	61	7	AV2
23	67	61	24	AV3
23	67	61	23	AV4
23	67	61	9	AV5
23	67	73	6	AV2
23	67	73	7	AV3
23	67	73	13	AV4
23	67	73	14	AV5
23	68	78	16	AV3
23	68	78	9	AV4
23	69	59	7	AV2
23	69	59	6	AV3
23	70	58	8	AV2
23	70	58	30	AV3
23	70	58	26	AV4
23	70	68	11	AV2
23	70	68	13	AV3
23	70	68	8	AV4
23	70	68	8	AV5
23	71	69	10	AV3
23	71	69	10	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
23	73	75	12	AV3
23	73	75	16	AV4
23	75	61	5	AV2
23	75	61	12	AV3
23	75	61	10	AV4
23	75	65	8	AV2
23	75	65	20	AV3
23	75	65	34	AV4
23	75	65	33	AV5
23	75	73	10	AV3
23	75	73	13	AV4
23	75	73	20	AV5
23	76	72	7	AV3
23	76	72	9	AV4
23	77	73	13	AV2
23	77	73	14	AV3
23	77	73	25	AV4
23	77	73	17	AV5
23	79	61	8	AV3
23	79	65	8	AV2
23	79	65	13	AV4
23	79	65	10	AV5
23	79	73	7	AV3
23	81	71	7	AV4
23	81	71	11	AV5
23	83	67	10	AV2
23	83	67	10	AV4
23	83	67	25	AV5
23	84	66	7	AV2
23	86	64	10	AV4
23	86	68	7	AV2
23	86	68	6	AV4
23	86	68	10	AV5
23	88	58	8	AV2
23	88	58	21	AV3
23	88	58	36	AV4
23	88	58	27	AV5
23	88	64	14	AV2

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
23	88	64	19	AV3
23	88	64	29	AV4
23	89	59	10	AV3
23	89	59	7	AV4
23	91	61	6	AV4
23	91	63	11	AV2
23	91	63	27	AV5
23	91	71	7	AV2
23	91	73	21	AV2
23	91	73	17	AV3
23	91	73	12	AV4
23	91	73	10	AV5
23	91	73	5	AV6
23	92	50	6	AV3
23	92	56	9	AV2
23	92	56	6	AV3
23	92	56	21	AV4
23	92	56	20	AV5
23	92	58	29	AV2
23	92	58	32	AV3
23	92	58	31	AV4
23	92	58	21	AV5
23	92	62	15	AV3
23	92	62	21	AV4
23	93	57	7	AV2
23	93	65	6	AV3
23	94	64	6	AV2
23	95	51	13	AV4
23	95	51	17	AV5
23	95	73	6	AV3
23	95	73	15	AV4
23	95	73	10	AV5
23	97	75	10	AV5
23	98	50	6	AV4
23	98	54	9	AV5
23	100	50	10	AV3
23	100	78	29	AV2
23	100	78	19	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
23	100	78	19	AV4
23	100	78	19	AV5
23	100	78	12	AV6
23	102	64	14	AV4
23	102	64	29	AV5
23	102	64	15	AV6
24	46	64	3	AV5
24	47	9	6	AV2
24	50	64	6	AV5
24	51	47	6	AV3
24	51	79	7	AV2
24	51	79	24	AV3
24	51	79	26	AV4
24	51	79	17	AV5
24	51	81	13	AV3
24	51	81	9	AV4
24	52	44	10	AV3
24	52	44	11	AV4
24	52	44	7	AV5
24	53	43	5	AV2
24	53	53	6	AV2
24	53	53	16	AV3
24	53	53	24	AV4
24	53	53	19	AV5
24	53	53	11	AV6
24	53	67	9	AV2
24	53	67	10	AV3
24	53	67	9	AV4
24	53	73	7	AV4
24	53	77	4	AV2
24	53	77	8	AV3
24	53	77	8	AV4
24	53	77	3	AV5
24	54	38	7	AV4
24	55	45	4	AV3
24	55	45	7	AV4
24	55	71	6	AV2
24	55	79	5	AV3

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	55	79	8	AV4
24	56	46	7	AV3
24	56	46	7	AV4
24	56	70	10	AV1
24	56	70	8	AV3
24	57	41	6	AV3
24	57	49	6	AV3
24	57	49	11	AV4
24	57	49	14	AV5
24	57	55	6	AV5
24	57	67	6	AV5
24	57	73	8	AV5
24	58	44	5	AV3
24	58	46	16	AV3
24	58	46	18	AV4
24	58	46	13	AV5
24	59	61	8	AV3
24	59	61	10	AV4
24	59	65	19	AV1
24	59	65	6	AV2
24	59	65	9	AV3
24	59	65	13	AV4
24	59	65	8	AV5
24	59	65	10	AV6
24	59	67	7	AV2
24	59	67	13	AV3
24	59	67	9	AV4
24	59	67	9	AV5
24	59	73	10	AV2
24	59	73	17	AV3
24	59	73	19	AV4
24	59	73	14	AV5
24	60	46	10	AV3
24	60	46	10	AV4
24	60	56	7	AV5
24	62	44	22	AV3
24	62	44	25	AV4
24	62	44	27	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	62	44	16	AV6
24	63	59	5	AV3
24	63	71	6	AV2
24	63	71	7	AV4
24	63	71	10	AV5
24	64	64	9	AV2
24	64	64	8	AV3
24	64	64	15	AV5
24	64	66	4	AV1
24	64	66	8	AV3
24	64	66	4	AV4
24	65	63	8	AV4
24	65	69	4	AV4
24	65	71	7	AV2
24	66	64	12	AV2
24	66	64	13	AV3
24	66	64	6	AV4
24	66	66	14	AV4
24	66	66	10	AV5
24	66	68	7	AV2
24	66	68	14	AV3
24	66	68	13	AV4
24	67	67	6	AV2
24	67	67	17	AV3
24	67	67	16	AV4
24	67	67	10	AV5
24	67	69	7	AV2
24	67	69	9	AV3
24	67	69	11	AV4
24	67	69	7	AV5
24	68	64	10	AV2
24	68	64	13	AV3
24	68	64	10	AV4
24	68	64	16	AV5
24	68	66	4	AV5
24	68	68	10	AV3
24	68	68	10	AV4
24	68	68	7	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	68	70	10	AV2
24	68	70	13	AV3
24	68	70	10	AV4
24	68	70	12	AV5
24	68	74	3	AV2
24	68	74	26	AV3
24	68	74	28	AV4
24	68	74	22	AV5
24	68	74	10	AV6
24	68	76	7	AV4
24	68	76	3	AV5
24	68	78	6	AV5
24	69	65	6	AV3
24	69	65	12	AV4
24	69	65	11	AV5
24	69	69	20	AV2
24	69	69	34	AV3
24	69	69	33	AV4
24	69	69	23	AV5
24	69	71	4	AV1
24	69	71	22	AV2
24	69	71	20	AV3
24	69	71	30	AV4
24	69	71	22	AV5
24	69	71	5	AV6
24	70	66	5	AV1
24	70	66	12	AV2
24	70	66	20	AV3
24	70	66	22	AV4
24	70	66	7	AV5
24	70	66	10	AV6
24	70	68	15	AV2
24	70	68	23	AV3
24	70	68	25	AV4
24	70	68	17	AV5
24	70	74	10	AV2
24	70	74	19	AV3
24	70	74	16	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	70	74	10	AV5
24	70	76	20	AV2
24	70	76	6	AV3
24	70	76	6	AV4
24	70	76	11	AV5
24	71	65	12	AV3
24	71	65	3	AV4
24	71	67	17	AV2
24	71	67	13	AV3
24	71	67	9	AV4
24	71	67	19	AV5
24	71	67	6	AV6
24	71	71	26	AV2
24	71	71	36	AV3
24	71	71	32	AV4
24	71	71	14	AV5
24	71	71	4	AV6
24	71	73	10	AV2
24	71	73	4	AV3
24	71	73	6	AV4
24	72	68	5	AV2
24	72	68	35	AV3
24	72	68	37	AV4
24	72	68	29	AV5
24	72	68	10	AV6
24	73	61	13	AV2
24	73	61	24	AV3
24	73	61	18	AV4
24	73	61	16	AV5
24	73	65	8	AV2
24	73	65	30	AV3
24	73	65	32	AV4
24	73	65	10	AV5
24	73	65	13	AV6
24	73	67	14	AV2
24	73	67	26	AV3
24	73	67	21	AV4
24	73	67	17	AV5

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	73	69	12	AV2
24	73	69	20	AV3
24	73	69	33	AV4
24	73	69	20	AV5
24	75	71	11	AV2
24	75	71	7	AV3
24	75	71	14	AV4
24	75	71	9	AV5
24	76	62	21	AV3
24	76	62	23	AV4
24	76	62	17	AV5
24	76	62	7	AV6
24	77	67	13	AV2
24	77	67	20	AV3
24	77	67	31	AV4
24	77	67	14	AV5
24	77	69	13	AV2
24	77	69	9	AV4
24	77	73	29	AV4
24	77	73	29	AV5
24	77	73	9	AV6
24	78	66	24	AV2
24	78	66	30	AV3
24	78	66	30	AV4
24	78	66	26	AV5
24	78	66	9	AV6
24	79	63	29	AV2
24	79	63	38	AV3
24	79	63	24	AV4
24	79	63	32	AV5
24	79	63	11	AV6
24	79	65	11	AV2
24	79	65	16	AV3
24	79	65	25	AV4
24	79	65	11	AV5
24	79	67	12	AV2
24	79	67	19	AV3
24	79	67	29	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	79	67	21	AV5
24	79	67	8	AV6
24	80	60	14	AV5
24	80	62	4	AV2
24	80	62	9	AV4
24	80	68	16	AV2
24	80	68	27	AV3
24	80	68	32	AV4
24	80	68	7	AV5
24	81	45	13	AV4
24	81	45	15	AV5
24	81	57	6	AV3
24	81	57	6	AV4
24	81	57	9	AV5
24	81	59	7	AV2
24	81	59	9	AV3
24	81	59	15	AV4
24	81	59	11	AV5
24	81	61	12	AV2
24	81	61	31	AV3
24	81	61	16	AV4
24	81	63	9	AV4
24	81	67	6	AV1
24	81	67	21	AV2
24	81	67	10	AV3
24	81	67	21	AV4
24	81	67	21	AV5
24	81	71	27	AV2
24	81	71	21	AV3
24	81	71	30	AV4
24	81	71	28	AV5
24	82	64	9	AV2
24	82	64	19	AV3
24	82	64	20	AV5
24	82	66	12	AV2
24	82	66	16	AV3
24	82	66	10	AV4
24	83	55	4	AV2

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	83	61	6	AV2
24	83	61	20	AV3
24	83	61	28	AV4
24	83	61	30	AV5
24	83	63	35	AV3
24	83	63	28	AV4
24	83	63	22	AV5
24	83	67	7	AV4
24	83	67	6	AV5
24	84	60	8	AV4
24	84	60	7	AV5
24	85	55	6	AV2
24	85	55	11	AV3
24	85	55	23	AV4
24	85	55	31	AV5
24	85	55	10	AV6
24	85	57	10	AV2
24	85	57	12	AV3
24	85	57	19	AV4
24	85	57	9	AV5
24	85	61	7	AV2
24	85	61	29	AV3
24	85	61	30	AV4
24	85	61	16	AV5
24	85	65	26	AV2
24	85	65	19	AV3
24	85	65	12	AV4
24	85	65	26	AV5
24	85	67	6	AV2
24	85	71	14	AV2
24	85	71	18	AV3
24	85	71	36	AV4
24	85	71	32	AV5
24	86	58	8	AV3
24	86	58	19	AV4
24	86	66	11	AV4
24	87	53	8	AV2
24	87	61	10	AV2

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	87	61	11	AV3
24	87	61	15	AV4
24	87	61	5	AV5
24	87	63	5	AV2
24	87	63	10	AV4
24	87	63	11	AV5
24	89	57	16	AV4
24	89	57	16	AV5
24	90	64	8	AV2
24	90	64	6	AV3
24	91	63	4	AV3
24	91	65	7	AV1
24	91	65	29	AV2
24	91	65	23	AV3
24	91	65	24	AV4
24	91	69	18	AV2
24	91	69	10	AV3
24	91	69	26	AV4
24	91	69	27	AV5
24	91	75	11	AV6
24	92	62	13	AV2
24	92	62	31	AV3
24	92	62	42	AV4
24	92	62	42	AV5
24	92	76	20	AV2
24	93	49	8	AV3
24	93	49	19	AV4
24	93	55	7	AV2
24	93	55	18	AV3
24	93	55	16	AV4
24	93	59	7	AV2
24	93	69	13	AV2
24	93	69	5	AV3
24	93	69	17	AV4
24	93	69	31	AV5
24	93	71	5	AV2
24	93	71	15	AV3
24	93	71	15	AV4

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	94	48	7	AV2
24	94	50	8	AV2
24	94	50	10	AV3
24	94	58	25	AV2
24	94	58	26	AV3
24	94	58	34	AV4
24	94	58	31	AV5
24	94	68	16	AV3
24	94	68	10	AV4
24	94	70	34	AV2
24	94	70	23	AV3
24	94	70	27	AV4
24	94	70	22	AV5
24	95	57	12	AV2
24	95	57	10	AV4
24	95	57	10	AV5
24	95	65	12	AV2
24	95	65	10	AV3
24	95	65	21	AV4
24	95	65	28	AV5
24	96	60	11	AV2
24	96	60	14	AV3
24	96	60	9	AV4
24	96	64	16	AV4
24	96	64	18	AV5
24	96	76	8	AV2
24	97	51	12	AV2
24	97	51	13	AV3
24	97	51	9	AV5
24	97	59	7	AV2
24	97	77	14	AV2
24	97	77	14	AV3
24	97	77	10	AV4
24	98	50	9	AV3
24	98	50	16	AV4
24	98	50	9	AV5
24	98	50	7	AV6
24	98	52	23	AV2

2R20 SERVICE INDUCED INDICATIONS (AVB WEAR)

SG	ROW	COL	%TW	SUPPORT
24	98	54	16	AV4
24	98	54	30	AV5
24	98	54	16	AV6
24	98	78	8	AV2
24	100	50	7	AV3
24	100	56	19	AV2
24	100	56	8	AV3
24	100	56	18	AV4
24	100	56	33	AV5
24	100	58	11	AV5
24	100	76	9	AV1
24	100	76	19	AV2
24	101	53	9	AV2
24	101	53	7	AV3
24	101	53	14	AV4
24	101	53	19	AV5
24	101	53	6	AV6
24	101	59	10	AV2
24	101	59	9	AV5
24	101	69	12	AV4
24	102	70	26	AV2
24	102	70	10	AV3
24	102	72	13	AV2

2R20 SERVICE INDUCED INDICATIONS (TSP WEAR)

SG	ROW	COL	%TW	SUPPORT
21	1	63	8	06C -0.79
21	1	63	14	06C +0.36
21	1	63	24	07C +0.37
21	1	63	14	07C -0.74
21	14	96	6	07H -0.73
21	73	59	7	04H +0.43
21	80	24	8	06H -0.7
21	100	80	9	05H +0.34
22	1	63	8	02H +0.48
22	1	63	20	02H -0.71
22	3	111	5	06C -0.77
22	45	73	10	04C -0.61
23	1	85	13	05C -0.68
23	1	97	11	05C +0.37
23	3	75	9	05C -0.75
23	15	125	9	05H +0.42
23	53	51	10	06H -0.72
23	97	43	12	04H +0.48
24	1	63	14	05C +0.29
24	1	63	11	05C -0.54
24	1	63	9	06C -0.27
24	1	65	5	06C -0.75
24	1	65	8	06C +0.49
24	1	67	9	06C -0.8
24	1	83	8	06C -0.88
24	1	89	14	05C +0.31
24	1	89	11	05C -0.77
24	1	89	14	06C -0.77
24	2	44	8	07C -0.82
24	61	91	9	06H -0.79
24	69	29	9	03H -0.68
24	84	62	9	06H +0.41
24	98	82	11	07H +0.41
24	100	78	6	07C +0.38
24	104	66	10	06C -0.58

