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**MAY 09 2013**

Technical Specification 6.9.1.10

LR-N13-0122

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington DC 20555-001

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

Subject: Steam Generator Tube Inspection Report – Nineteenth Refueling Outage (2R19)

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 November 13, 2012, following the completion of its nineteenth 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	Summary of Salem 2R19 Wear Indications (Tubes / Indications)
Attachment 4	2R19 Nondestructive Examination Techniques
Attachment 5	2R19 Service Induced Indications (AVB Wear)
Attachment 6	2R19 Service Induced Indications (TSP Wear)

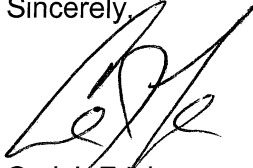
There are no commitments contained in this letter.

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

Sincerely,



Carl J. Fricker  
Site Vice President – Salem

Attachments (6)

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Attachment 1  
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Steam Generator Tube Inspection Report  
TS 6.9.1.10

# **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 November 13, 2012.

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,

## **STEAM GENERATOR TUBE INSPECTION REPORT**

### **TS 6.9.1.10**

- 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.

SG inspections were performed in accordance with TS 6.8.4.i, "Steam Generator Program", during Salem Unit 2 Outage 2R19, which was also the third 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.

#### **Technical Specification 6.9.1.10.a, "The scope of inspections performed on each SG"**

The following Tube inspections were performed:

1. A full-length (tube end to tube end) bobbin coil probe inspection was performed on 100% of the in-service tubes in each steam generator.
2. Array Probe (X-Probe) Inspection of the 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 TSP to 3 inches below the top of the tubesheet (TTS).
3. Plus Point Inspection of all AVB wear locations sized with Bobbin 40% Through-wall (TW) or greater.
4. Plus Point Inspection of all new TSP wear locations.
5. Plus Point Special Interest Inspections, including all Bobbin "I" code locations.

#### **Technical Specification 6.9.1.10.b, "Active degradation mechanisms found"**

The active degradation mechanisms found during outage 2R19 are wear at the AVB and TSP. A summary of the wear indications is provided in Attachment 3.

#### **Technical Specification 6.9.1.10.c, "Nondestructive examination techniques utilized for each degradation mechanism."**

Attachment 4 provides the Nondestructive examination techniques utilized for each degradation mechanism.

## **STEAM GENERATOR TUBE INSPECTION REPORT**

### **TS 6.9.1.10**

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

The only service induced indications detected during outage 2R19 were due to AVB wear and TSP wear. Attachments 5 and 6 provide information for the AVB and TSP wear. The Through-wall (TW) sizing in Attachments 5 and 6 is based on site validated technique ETSS 96004.1.

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

The table provided in response to Tech Spec 6.9.1.10.b provides the number of tubes plugged (and number of indications) during the inspection outage for each active degradation mechanism.

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

Following the completion of outage 2R19, a total of 72 tubes were removed from service from all four steam generators. This equates to a total of approximately 0.485% of the tubes removed from service from all four steam generators. The Table below provides further details.

<b>Steam Generator Tube Plugging</b>					
	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
Total Tubes Plugged	32	31	2	33	98
Total Percentage	0.634	0.614	0.040	0.654	0.485

U-bend cable stabilizers were conservatively installed in all plugged tubes.

## **STEAM GENERATOR TUBE INSPECTION REPORT**

### **TS 6.9.1.10**

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

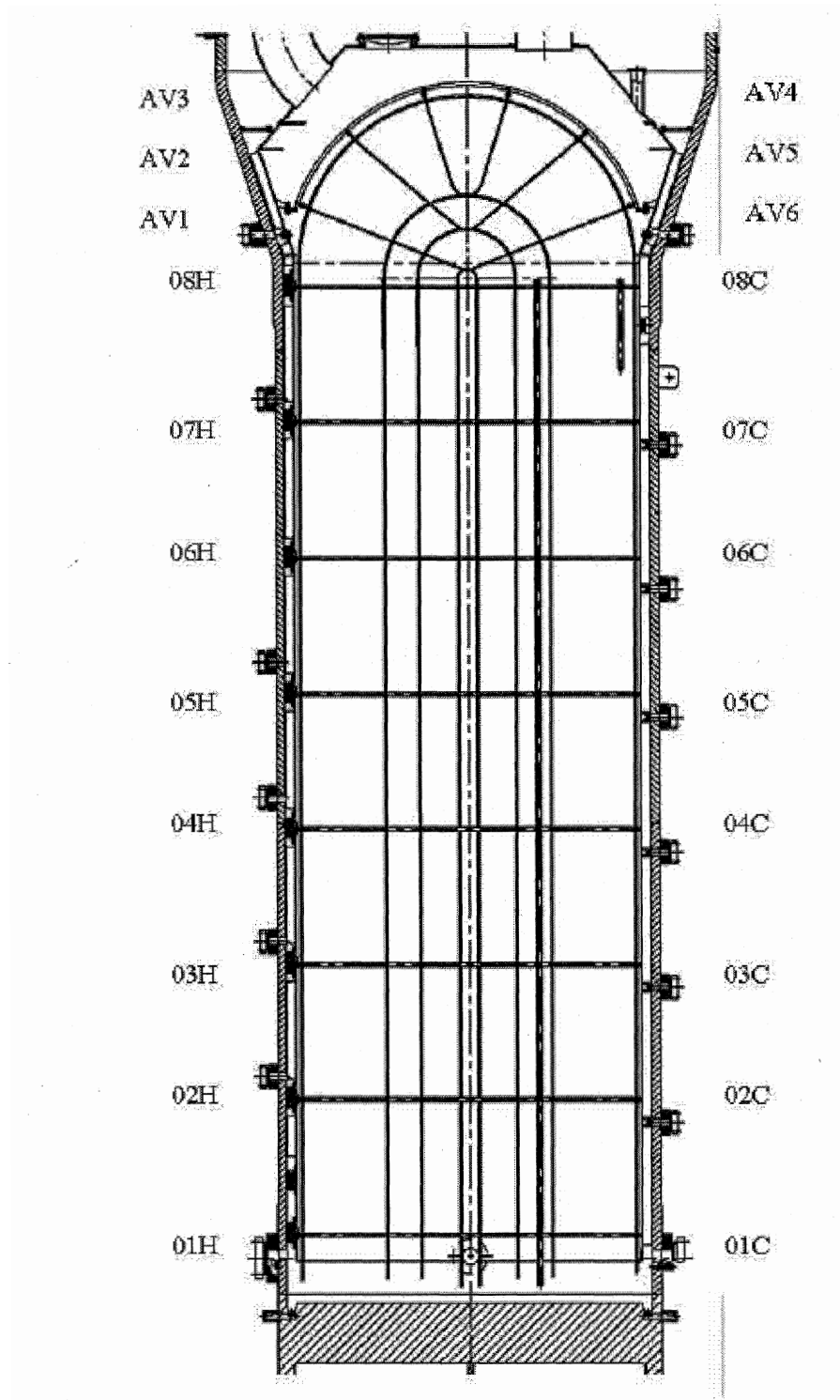
The largest depth of degradation detected during 2R19 for AVB wear was 46% TW, and TSP wear was 24% TW (reference response to 6.9.1.10.d for further details). The 46% TW AVB indication was also sized with qualified Plus Point technique and determined to be double sided wear of 40%TW and 13%TW (wear on both sides of the tube). 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.

Attachment 2  
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## Salem Unit 2 SG Tube Support Arrangement and Terminology



## Salem Unit 2 SG Tube Support Arrangement and Terminology



Attachment 3  
LR-N13-0122

Summary of Salem 2R19 Wear Indications  
(Tubes / Indications)

# **Summary of Salem 2R19 Wear Indications (Tubes/ Indications)**

	SG 21		SG 22		SG 23		SG 24		Total	
	Tubes	Indic	Tubes	Indic	Tubes	Indic	Tubes	Indic	Tubes	Indic
<b>Detected</b>										
<b>AVB</b>	253	755	202	534	54	129	158	483	667	1901
<b>TSP (Note 1)</b>	5	8	2	3	4	4	8	11	19	26
<b>Total</b>	258	763	204	537	58	133	166	494	686	1927
<b>Plugged</b>										
<b>AVB</b>	29	148	23	108	0	0	20	92	72	348
<b>TSP (Note 2)</b>	2	2	0	0	0	0	0	0	2	2
<b>Total</b>	31	150	23	108	0	0	20	92	74	350
<b>Returned to Service</b>										
<b>AVB</b>	224	607	179	426	54	129	138	391	595	1553
<b>TSP</b>	3	6	2	3	4	4	8	11	17	24
<b>Total</b>	227	613	181	429	58	133	146	402	612	1577

Notes:

1. The table above lists the indications identified by Bobbin probe.
2. These tubes were plugged due to having AVB wear indications >39% (R78-C66 and R93-C65).

Attachment 4  
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## 2R19 Nondestructive Examination Techniques

## 2R19 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
2	Bobbin	96004.3 Revision 13	Wear	AVB and TSP	None	Yes	Yes
3	Bobbin	27091.2 Revision 0	Possible Loose Part (PLP) Wear	PLP Wear (part not present)	Detection of PLP wear with Part Present	Yes	N/A
4	Bobbin	27091.3 Revision 0	PLP Wear	PLP Wear (part not present)	Tube to tube wear in the freespan or in contact with an adjacent tube	Yes	No
5	+Point™	96910.1 Revision 10	Wear	Broached supports	All Support Structures and Freespan PLP Wear (When Part Present)	Yes	Yes
6	+Point™	21998.1 Revision 4	Volumetric	Freespan	None	Yes	Yes

## 2R19 Nondestructive Examination Techniques

Technique		Industry Qualification	Damage Mechanism	Demonstrated Applicability	Extended Applicability	Site-Specific Review Deemed Acceptable	
						Detection	Sizing
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)*	<p>Detection of Foreign Material based on material and proximity of foreign material to the tube based on EPRI reports 1020631 and 1018561.</p> <p>For sizing of PLP wear when part is present based on EPRI Report 1020631 on an as needed basis.</p> <p>For sizing of Tube to Tube wear in the freespan or when in contact with an adjacent tube based on EPRI 1020631</p>	Yes	Yes
7A	+Point™	27901.1	PLP Wear	Freespan, TSP and Expansion Transition PLP Wear Morphology Dependent (part not present)*	AVB Support Structure (APPUI)	Yes	Yes**
8	+Point™	10908.4 Revision 1	Wear	AVB	AVB Support Structure (APPUI)	Yes	Yes***

## 2R19 Nondestructive Examination Techniques

Technique		Industry Qualification	Damage Mechanism	Demonstrated Applicability	Extended Applicability	Site-Specific Review Deemed Acceptable	
						Detection	Sizing
9	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 based on material and proximity of foreign material to the tube based on EPRI reports 1020631 and 1018561.	Yes	N/A

\* EPRI Technical Report 1024862 concludes that a correlation can be drawn between the existing qualified loose part wear freespan ETSSs and the expanded transition area, which is associated with the TTS. In addition, that report concludes that steam generators containing stainless steel TSPs would apply a conservative through-wall percent estimate to the already existing loose part wear ETSSs for depth-sizing.

\*\* Sizing for Condition Monitoring / Operational Assessment Purposes only.

\*\*\* AVB Wear Only (i.e. NOT for APPUI Wear)

Attachment 5  
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2R19 Service Induced Indications (AVB Wear)



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	37	33	5	AV5
21	37	33	6	AV2
21	39	69	6	AV2
21	46	46	5	AV3
21	48	70	7	AV3
21	50	52	8	AV5
21	51	41	6	AV4
21	51	63	8	AV2
21	51	63	5	AV5
21	51	73	8	AV4
21	52	62	5	AV2
21	52	78	7	AV5
21	53	53	16	AV5
21	53	53	16	AV2
21	53	53	12	AV3
21	53	53	7	AV4
21	53	57	6	AV5
21	53	57	11	AV4
21	53	75	8	AV3
21	53	79	11	AV4
21	53	95	6	AV3
21	53	95	6	AV4
21	54	72	10	AV2
21	54	76	11	AV4
21	54	76	12	AV5
21	54	76	9	AV3
21	54	82	11	AV3
21	54	82	13	AV4
21	54	88	9	AV2
21	55	41	7	AV4
21	55	83	6	AV4
21	55	83	7	AV5
21	56	36	10	AV3
21	56	64	5	AV3
21	57	49	5	AV4
21	58	48	9	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	58	64	8	AV3
21	58	64	7	AV4
21	58	64	9	AV5
21	58	76	20	AV5
21	58	76	20	AV4
21	58	76	15	AV3
21	59	63	7	AV5
21	59	65	6	AV2
21	59	65	5	AV5
21	59	79	8	AV4
21	59	83	6	AV4
21	60	52	10	AV4
21	60	52	12	AV5
21	61	59	5	AV5
21	61	63	6	AV4
21	61	65	5	AV3
21	61	65	8	AV4
21	61	65	10	AV5
21	62	62	5	AV4
21	62	64	14	AV2
21	62	72	9	AV5
21	63	77	6	AV3
21	64	56	7	AV4
21	64	56	4	AV5
21	64	66	13	AV6
21	64	66	26	AV5
21	64	66	21	AV4
21	64	66	22	AV3
21	64	66	12	AV2
21	65	53	9	AV3
21	65	53	6	AV4
21	65	53	6	AV5
21	65	59	5	AV4
21	65	61	11	AV2
21	65	61	8	AV4
21	65	61	8	AV5
21	65	61	7	AV3
21	65	75	29	AV5

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	65	75	31	AV4
21	65	75	17	AV2
21	65	75	27	AV3
21	66	48	16	AV3
21	66	48	24	AV4
21	66	48	11	AV5
21	66	52	7	AV5
21	66	52	15	AV3
21	66	52	19	AV4
21	66	58	12	AV4
21	66	58	12	AV3
21	66	58	5	AV5
21	66	58	8	AV2
21	66	60	12	AV5
21	66	60	9	AV2
21	66	60	24	AV3
21	66	60	22	AV4
21	66	64	27	AV4
21	66	64	7	AV6
21	66	64	9	AV3
21	66	64	17	AV2
21	66	64	27	AV5
21	66	68	20	AV4
21	66	68	16	AV3
21	67	53	21	AV3
21	67	53	13	AV2
21	67	53	20	AV4
21	67	55	8	AV3
21	67	55	7	AV4
21	67	61	10	AV3
21	67	63	9	AV4
21	67	63	10	AV5
21	67	67	16	AV3
21	67	67	15	AV4
21	67	67	7	AV2
21	68	58	6	AV2
21	68	58	6	AV3
21	68	58	12	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	68	58	8	AV5
21	68	60	24	AV3
21	68	60	29	AV5
21	68	60	14	AV2
21	68	60	27	AV4
21	68	62	31	AV4
21	68	62	20	AV5
21	68	62	28	AV3
21	68	62	15	AV2
21	68	64	6	AV3
21	68	64	22	AV4
21	68	64	20	AV5
21	68	64	18	AV2
21	69	51	18	AV4
21	69	51	13	AV3
21	69	57	6	AV5
21	69	59	4	AV3
21	69	61	16	AV3
21	69	61	19	AV5
21	69	61	20	AV4
21	69	61	8	AV6
21	69	61	8	AV2
21	69	63	18	AV3
21	69	63	17	AV5
21	69	63	18	AV4
21	69	63	9	AV2
21	69	65	21	AV3
21	69	65	16	AV4
21	69	65	6	AV1
21	69	67	12	AV4
21	69	67	5	AV3
21	69	73	21	AV5
21	69	73	22	AV2
21	69	73	28	AV3
21	69	73	30	AV4
21	69	75	18	AV5
21	69	75	26	AV2
21	69	75	28	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	69	75	24	AV3
21	70	48	20	AV4
21	70	48	18	AV3
21	70	52	15	AV4
21	70	52	15	AV5
21	70	54	10	AV2
21	70	54	17	AV4
21	70	54	16	AV3
21	70	56	15	AV2
21	70	56	17	AV4
21	70	56	16	AV3
21	70	56	13	AV5
21	70	58	5	AV3
21	70	58	4	AV4
21	70	60	7	AV4
21	70	62	6	AV5
21	70	62	10	AV4
21	70	62	10	AV3
21	70	62	6	AV2
21	70	66	10	AV5
21	70	66	6	AV4
21	70	66	8	AV3
21	71	51	18	AV4
21	71	51	17	AV3
21	71	59	11	AV2
21	71	59	10	AV4
21	71	59	5	AV3
21	71	63	8	AV5
21	71	63	9	AV4
21	71	65	21	AV3
21	71	65	5	AV2
21	71	65	14	AV4
21	71	65	7	AV6
21	71	65	9	AV5
21	71	69	17	AV3
21	71	69	27	AV5
21	71	69	31	AV4
21	71	69	16	AV2

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	72	54	14	AV4
21	72	54	18	AV3
21	72	54	11	AV5
21	72	54	5	AV6
21	72	56	5	AV2
21	72	56	25	AV4
21	72	56	21	AV3
21	72	56	23	AV5
21	72	58	10	AV4
21	72	58	5	AV5
21	72	60	8	AV4
21	72	64	14	AV5
21	72	64	22	AV4
21	72	64	17	AV3
21	72	64	11	AV2
21	72	70	22	AV4
21	72	70	20	AV3
21	72	70	6	AV2
21	72	70	7	AV5
21	72	72	34	AV3
21	72	72	33	AV4
21	72	72	32	AV5
21	72	72	27	AV2
21	73	55	5	AV5
21	73	55	11	AV4
21	73	55	10	AV2
21	73	55	11	AV3
21	73	57	11	AV3
21	73	57	5	AV5
21	73	59	26	AV4
21	73	59	9	AV2
21	73	59	5	AV5
21	73	59	20	AV3
21	73	61	31	AV5
21	73	61	18	AV3
21	73	61	14	AV2
21	73	61	35	AV4
21	73	63	5	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	73	63	7	AV3
21	73	63	6	AV5
21	73	65	19	AV4
21	73	65	24	AV3
21	73	65	17	AV5
21	73	67	8	AV4
21	73	67	16	AV3
21	73	71	18	AV5
21	73	71	36	AV4
21	73	71	36	AV3
21	73	71	26	AV2
21	74	56	8	AV5
21	74	56	4	AV4
21	74	58	28	AV5
21	74	58	34	AV4
21	74	58	31	AV3
21	74	58	9	AV2
21	74	60	10	AV4
21	74	60	8	AV2
21	74	60	13	AV5
21	74	60	11	AV3
21	74	62	33	AV4
21	74	62	11	AV5
21	74	62	9	AV2
21	74	62	26	AV3
21	74	62	8	AV1
21	74	64	5	AV3
21	74	64	5	AV4
21	74	70	15	AV2
21	74	70	23	AV3
21	74	70	26	AV4
21	74	70	15	AV5
21	75	57	13	AV5
21	75	57	14	AV4
21	75	57	12	AV3
21	75	59	6	AV6
21	75	59	16	AV3
21	75	59	19	AV2

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	75	59	12	AV5
21	75	59	17	AV4
21	75	63	28	AV5
21	75	63	21	AV3
21	75	63	23	AV4
21	75	63	7	AV2
21	75	65	25	AV4
21	75	65	4	AV1
21	75	65	33	AV3
21	75	65	27	AV5
21	75	65	21	AV2
21	75	65	9	AV6
21	75	67	15	AV2
21	75	67	14	AV3
21	75	67	8	AV5
21	75	67	22	AV4
21	75	69	7	AV2
21	75	69	19	AV3
21	75	69	18	AV4
21	75	69	19	AV5
21	75	71	11	AV4
21	76	54	32	AV4
21	76	54	28	AV5
21	76	54	16	AV3
21	76	54	6	AV6
21	76	56	8	AV5
21	76	56	5	AV3
21	76	56	10	AV4
21	76	58	27	AV3
21	76	58	8	AV2
21	76	58	33	AV4
21	76	58	28	AV5
21	76	60	17	AV3
21	76	60	11	AV4
21	76	60	12	AV5
21	76	60	6	AV2
21	76	62	6	AV6
21	76	62	17	AV4



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	76	62	13	AV3
21	76	62	8	AV2
21	76	62	9	AV5
21	76	64	17	AV4
21	76	64	16	AV3
21	76	64	14	AV1
21	76	64	30	AV2
21	76	64	14	AV5
21	76	66	8	AV3
21	76	66	5	AV5
21	76	66	6	AV4
21	76	68	11	AV3
21	76	68	14	AV4
21	77	55	10	AV4
21	77	57	14	AV4
21	77	57	21	AV3
21	77	57	10	AV2
21	77	57	7	AV6
21	77	57	19	AV5
21	77	59	34	AV4
21	77	59	20	AV2
21	77	59	24	AV3
21	77	59	33	AV5
21	77	61	31	AV4
21	77	61	23	AV3
21	77	61	24	AV5
21	77	61	7	AV2
21	77	63	32	AV3
21	77	63	31	AV2
21	77	63	34	AV5
21	77	63	11	AV1
21	77	63	33	AV4
21	77	65	11	AV4
21	77	67	8	AV4
21	77	67	6	AV3
21	77	67	7	AV2
21	77	71	6	AV3
21	78	52	21	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	78	52	30	AV4
21	78	52	24	AV5
21	78	54	24	AV2
21	78	54	17	AV4
21	78	54	28	AV3
21	78	56	30	AV5
21	78	56	27	AV2
21	78	56	17	AV3
21	78	56	31	AV4
21	78	58	38	AV3
21	78	58	37	AV4
21	78	58	35	AV5
21	78	58	20	AV2
21	78	60	13	AV5
21	78	60	11	AV2
21	78	60	12	AV3
21	78	62	20	AV2
21	78	62	20	AV4
21	78	62	23	AV3
21	78	62	4	AV6
21	78	62	7	AV5
21	78	64	15	AV2
21	78	64	7	AV6
21	78	64	32	AV4
21	78	64	3	AV1
21	78	64	33	AV3
21	78	64	13	AV5
21	78	66	7	AV6
21	78	66	29	AV5
21	78	66	10	AV1
21	78	66	31	AV3
21	78	66	34	AV2
21	78	66	44	AV4
21	78	76	7	AV3
21	78	76	8	AV2
21	79	57	12	AV3
21	79	57	9	AV4
21	79	59	14	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	79	59	14	AV5
21	79	61	17	AV3
21	79	61	13	AV5
21	79	61	28	AV4
21	79	61	12	AV2
21	79	63	12	AV3
21	79	63	6	AV5
21	79	63	6	AV2
21	79	63	18	AV4
21	79	65	9	AV1
21	79	65	35	AV4
21	79	65	35	AV5
21	79	65	39	AV3
21	79	65	25	AV2
21	79	65	6	AV6
21	79	69	33	AV3
21	79	69	15	AV5
21	79	69	32	AV4
21	79	69	23	AV2
21	80	56	36	AV4
21	80	56	18	AV3
21	80	56	38	AV5
21	80	60	15	AV5
21	80	60	17	AV3
21	80	60	8	AV4
21	80	60	17	AV2
21	80	62	7	AV6
21	80	62	18	AV2
21	80	62	27	AV3
21	80	62	26	AV5
21	80	62	30	AV4
21	80	64	5	AV2
21	80	66	35	AV5
21	80	66	13	AV1
21	80	66	12	AV6
21	80	66	39	AV3
21	80	66	44	AV4
21	80	66	36	AV2

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	81	57	15	AV3
21	81	59	13	AV3
21	81	59	25	AV4
21	81	59	6	AV1
21	81	59	23	AV2
21	81	59	22	AV5
21	81	59	4	AV6
21	81	61	31	AV5
21	81	61	9	AV2
21	81	61	30	AV4
21	81	61	24	AV3
21	81	63	18	AV5
21	81	63	9	AV6
21	81	63	28	AV3
21	81	63	25	AV4
21	81	63	6	AV1
21	81	63	22	AV2
21	81	65	12	AV2
21	81	65	35	AV3
21	81	65	25	AV4
21	81	65	23	AV5
21	81	67	18	AV2
21	81	67	10	AV6
21	81	67	25	AV5
21	81	67	27	AV4
21	81	67	28	AV3
21	82	58	8	AV4
21	82	58	13	AV3
21	82	58	7	AV2
21	82	60	25	AV3
21	82	60	31	AV5
21	82	60	30	AV4
21	82	60	16	AV2
21	82	62	25	AV5
21	82	62	33	AV4
21	82	62	32	AV3
21	82	62	17	AV2
21	82	64	7	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	82	68	22	AV4
21	82	68	16	AV2
21	82	68	19	AV5
21	82	72	7	AV4
21	82	72	6	AV3
21	82	74	24	AV5
21	82	74	5	AV6
21	82	74	19	AV4
21	83	57	5	AV3
21	83	57	4	AV5
21	83	59	26	AV5
21	83	59	33	AV4
21	83	59	30	AV3
21	83	59	21	AV2
21	83	63	29	AV4
21	83	63	18	AV2
21	83	63	22	AV5
21	83	63	32	AV3
21	83	63	13	AV1
21	83	67	16	AV2
21	83	67	15	AV3
21	83	67	20	AV4
21	83	67	8	AV5
21	83	69	31	AV3
21	83	69	35	AV2
21	83	69	18	AV5
21	83	69	30	AV4
21	84	58	14	AV3
21	84	58	20	AV4
21	84	58	13	AV5
21	84	58	8	AV6
21	84	60	16	AV6
21	84	60	25	AV2
21	84	60	38	AV3
21	84	60	25	AV4
21	84	60	30	AV5
21	84	62	15	AV5
21	84	62	19	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	84	62	19	AV3
21	84	62	7	AV2
21	84	64	34	AV3
21	84	64	27	AV6
21	84	64	16	AV1
21	84	64	34	AV5
21	84	64	42	AV2
21	84	64	27	AV4
21	84	66	17	AV1
21	84	66	36	AV5
21	84	66	37	AV4
21	84	66	37	AV3
21	84	66	36	AV2
21	84	68	25	AV5
21	84	68	29	AV2
21	84	68	22	AV4
21	84	68	36	AV3
21	84	70	31	AV2
21	84	70	40	AV4
21	84	70	39	AV5
21	84	70	27	AV6
21	84	70	38	AV3
21	84	80	16	AV5
21	84	80	13	AV4
21	85	57	23	AV2
21	85	57	6	AV5
21	85	57	35	AV3
21	85	57	31	AV4
21	85	61	10	AV6
21	85	61	29	AV4
21	85	61	34	AV3
21	85	61	35	AV5
21	85	61	19	AV1
21	85	61	35	AV2
21	85	63	15	AV3
21	85	67	23	AV4
21	85	67	19	AV2
21	85	67	30	AV3

## 2R19 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	7	AV5
21	86	66	15	AV5
21	86	66	10	AV6
21	86	66	23	AV4
21	86	66	23	AV3
21	86	66	29	AV2
21	86	66	9	AV1
21	87	59	18	AV3
21	87	59	12	AV5
21	87	59	32	AV4
21	87	59	11	AV1
21	87	59	36	AV2
21	87	61	11	AV4
21	87	61	7	AV2
21	87	61	13	AV5
21	87	61	16	AV3
21	87	65	23	AV4
21	87	65	6	AV5
21	87	65	6	AV3
21	87	65	14	AV2
21	88	56	9	AV4
21	88	60	7	AV5
21	88	60	19	AV4
21	88	60	24	AV3
21	88	60	20	AV2
21	88	62	25	AV4
21	88	62	14	AV5
21	88	62	23	AV3
21	88	62	16	AV2
21	88	64	38	AV4
21	88	64	30	AV5
21	88	64	33	AV3
21	88	64	13	AV1
21	88	64	25	AV2
21	88	64	7	AV6

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	88	66	6	AV6
21	88	72	8	AV4
21	89	57	8	AV5
21	89	57	6	AV3
21	89	57	14	AV4
21	89	59	18	AV6
21	89	59	28	AV4
21	89	59	19	AV3
21	89	59	18	AV2
21	89	59	36	AV5
21	89	59	4	AV1
21	89	61	21	AV3
21	89	61	14	AV1
21	89	61	13	AV6
21	89	61	24	AV5
21	89	61	16	AV4
21	89	61	24	AV2
21	89	63	19	AV3
21	89	63	36	AV2
21	89	63	8	AV1
21	89	63	13	AV4
21	89	73	19	AV4
21	89	73	9	AV5
21	89	73	10	AV3
21	90	56	21	AV4
21	90	56	5	AV3
21	90	58	36	AV4
21	90	58	26	AV5
21	90	58	14	AV6
21	90	58	20	AV3
21	90	58	5	AV2
21	90	60	5	AV5
21	90	60	9	AV2
21	90	62	12	AV4
21	90	62	8	AV3
21	90	64	9	AV5
21	90	64	5	AV4
21	90	74	5	AV2



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	90	74	9	AV3
21	91	57	8	AV2
21	91	57	9	AV3
21	91	57	7	AV4
21	91	59	17	AV3
21	91	59	20	AV4
21	91	59	19	AV5
21	91	59	21	AV2
21	91	61	15	AV5
21	91	63	17	AV4
21	91	63	16	AV5
21	91	67	9	AV4
21	91	71	6	AV2
21	92	58	21	AV3
21	92	58	6	AV6
21	92	58	23	AV4
21	92	60	30	AV2
21	92	60	29	AV3
21	92	60	16	AV1
21	92	60	26	AV5
21	92	60	36	AV4
21	92	60	14	AV6
21	92	64	13	AV4
21	92	64	45	AV2
21	92	64	28	AV1
21	92	64	38	AV5
21	92	64	17	AV6
21	92	64	18	AV3
21	92	66	13	AV4
21	92	66	5	AV5
21	92	74	8	AV4
21	92	74	26	AV2
21	92	74	9	AV5
21	92	74	27	AV3
21	93	57	11	AV4
21	93	59	36	AV4
21	93	59	24	AV5
21	93	59	30	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	93	59	5	AV6
21	93	59	7	AV1
21	93	59	24	AV2
21	93	61	9	AV5
21	93	61	8	AV4
21	93	63	17	AV5
21	93	63	23	AV4
21	93	63	26	AV2
21	93	63	21	AV3
21	93	65	38	AV2
21	93	65	17	AV6
21	93	65	26	AV5
21	93	65	7	AV1
21	93	65	37	AV3
21	93	65	45	AV4
21	93	67	5	AV4
21	93	73	9	AV5
21	94	62	16	AV4
21	94	62	22	AV5
21	94	62	19	AV2
21	94	62	7	AV6
21	94	62	17	AV3
21	94	64	11	AV2
21	94	64	7	AV4
21	94	64	13	AV3
21	94	68	24	AV5
21	94	68	25	AV4
21	94	68	13	AV2
21	95	59	30	AV3
21	95	59	30	AV4
21	95	59	22	AV2
21	95	59	11	AV5
21	95	61	7	AV3
21	95	67	9	AV3
21	95	67	11	AV2
21	96	50	7	AV5
21	96	58	27	AV4
21	96	58	32	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	96	58	33	AV2
21	96	60	5	AV2
21	96	60	25	AV4
21	96	60	17	AV5
21	96	62	29	AV4
21	96	62	13	AV2
21	96	62	15	AV3
21	96	66	16	AV6
21	96	66	32	AV4
21	96	66	25	AV3
21	96	66	39	AV5
21	96	66	7	AV2
21	96	66	6	AV1
21	96	78	14	AV4
21	96	78	6	AV1
21	97	57	23	AV2
21	97	57	18	AV5
21	97	57	24	AV3
21	97	57	21	AV4
21	97	59	34	AV5
21	97	59	26	AV4
21	97	59	20	AV6
21	97	59	14	AV3
21	97	61	16	AV4
21	97	61	34	AV3
21	97	61	19	AV2
21	97	65	7	AV3
21	97	67	12	AV5
21	97	67	26	AV4
21	97	67	12	AV2
21	97	67	18	AV3
21	98	58	6	AV6
21	98	58	14	AV5
21	98	58	27	AV4
21	98	58	33	AV3
21	98	58	26	AV2
21	98	60	22	AV2
21	98	60	27	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
21	98	60	22	AV4
21	98	76	20	AV2
21	98	76	9	AV3
21	98	76	7	AV1
21	98	78	7	AV2
21	99	57	5	AV4
21	99	59	22	AV4
21	99	59	14	AV6
21	99	59	6	AV5
21	99	63	31	AV5
21	99	63	30	AV4
21	99	63	8	AV6
21	99	65	12	AV3
21	99	65	11	AV4
21	99	67	12	AV2
21	99	67	5	AV3
21	99	69	6	AV2
21	99	73	13	AV3
21	99	73	6	AV5
21	99	73	10	AV2
21	100	56	8	AV5
21	100	58	29	AV5
21	100	58	10	AV4
21	100	58	12	AV6
21	100	66	6	AV3
21	100	78	7	AV1
21	101	59	23	AV4
21	101	59	5	AV6
21	101	59	21	AV3
21	101	67	28	AV3
21	101	67	27	AV4
21	101	67	30	AV2
21	101	67	11	AV1
21	102	56	6	AV5
21	103	57	5	AV4
22	46	62	5	AV3
22	47	25	4	AV3
22	47	97	8	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	48	12	8	AV4
22	49	49	7	AV3
22	49	55	5	AV4
22	49	61	6	AV4
22	49	63	6	AV3
22	49	63	5	AV4
22	49	65	9	AV4
22	50	60	8	AV4
22	50	96	5	AV4
22	51	47	6	AV3
22	52	48	6	AV4
22	52	74	6	AV5
22	53	61	5	AV3
22	53	77	9	AV4
22	55	57	6	AV3
22	55	81	6	AV5
22	55	83	4	AV4
22	57	55	20	AV2
22	57	55	28	AV3
22	57	55	23	AV4
22	57	55	12	AV5
22	57	59	10	AV3
22	57	61	6	AV2
22	58	48	6	AV4
22	58	52	7	AV4
22	58	62	15	AV2
22	58	62	11	AV4
22	58	62	9	AV5
22	59	61	8	AV2
22	59	61	9	AV3
22	59	61	10	AV4
22	59	61	16	AV5
22	59	83	5	AV4
22	60	48	6	AV4
22	60	58	8	AV4
22	60	62	9	AV4
22	60	62	6	AV5
22	60	66	12	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	60	74	19	AV2
22	60	74	6	AV3
22	60	74	14	AV4
22	60	74	15	AV5
22	60	78	4	AV2
22	61	61	16	AV3
22	61	61	12	AV4
22	61	61	16	AV5
22	61	65	7	AV4
22	62	52	11	AV3
22	62	52	26	AV4
22	62	52	20	AV5
22	62	60	10	AV3
22	62	60	10	AV4
22	62	62	18	AV2
22	62	62	15	AV3
22	62	62	23	AV4
22	62	62	21	AV5
22	62	74	13	AV2
22	62	74	9	AV3
22	62	74	16	AV4
22	62	74	15	AV5
22	63	63	18	AV2
22	63	63	19	AV3
22	63	63	8	AV4
22	63	65	6	AV2
22	63	65	7	AV4
22	64	64	22	AV2
22	64	64	7	AV3
22	64	64	21	AV5
22	64	64	10	AV6
22	65	57	7	AV3
22	65	61	10	AV2
22	65	61	11	AV4
22	65	61	11	AV5
22	65	63	9	AV3
22	65	63	13	AV4
22	65	67	13	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	65	67	25	AV4
22	65	67	19	AV5
22	65	69	6	AV4
22	65	75	8	AV2
22	65	75	13	AV3
22	65	75	11	AV4
22	65	77	6	AV4
22	66	60	7	AV2
22	66	60	23	AV3
22	66	60	17	AV4
22	66	60	10	AV5
22	66	64	8	AV3
22	66	64	17	AV5
22	66	74	5	AV2
22	66	80	6	AV2
22	66	80	7	AV3
22	66	80	8	AV4
22	67	49	11	AV3
22	67	57	5	AV2
22	67	57	11	AV3
22	67	61	16	AV2
22	67	61	18	AV3
22	67	61	14	AV4
22	67	61	23	AV5
22	67	63	22	AV2
22	67	63	24	AV3
22	67	63	9	AV4
22	67	63	28	AV5
22	67	65	9	AV4
22	68	46	6	AV3
22	68	46	11	AV4
22	68	46	7	AV5
22	68	54	4	AV3
22	68	60	22	AV3
22	68	60	17	AV4
22	68	60	12	AV5
22	68	64	18	AV2
22	68	64	15	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	68	64	12	AV5
22	68	78	7	AV3
22	68	78	8	AV4
22	68	78	6	AV5
22	69	63	18	AV2
22	69	63	13	AV3
22	69	63	12	AV4
22	69	63	9	AV5
22	69	67	11	AV2
22	69	67	27	AV3
22	69	67	35	AV4
22	69	67	27	AV5
22	69	69	8	AV4
22	70	62	8	AV2
22	70	62	15	AV4
22	70	62	19	AV5
22	70	64	6	AV1
22	70	64	22	AV2
22	70	64	18	AV3
22	70	64	17	AV5
22	70	80	5	AV2
22	70	80	6	AV3
22	70	80	5	AV4
22	71	51	11	AV2
22	71	51	7	AV3
22	71	51	6	AV4
22	71	63	8	AV2
22	71	63	23	AV3
22	71	63	24	AV4
22	71	65	11	AV2
22	71	65	15	AV3
22	71	65	21	AV4
22	71	65	20	AV5
22	71	75	6	AV2
22	72	58	16	AV2
22	72	58	14	AV3
22	72	58	22	AV4
22	72	58	5	AV5



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	72	62	8	AV1
22	72	62	18	AV2
22	72	62	31	AV3
22	72	62	34	AV4
22	72	62	21	AV5
22	72	64	11	AV2
22	72	64	19	AV3
22	72	64	12	AV5
22	72	66	7	AV3
22	72	66	4	AV5
22	72	68	19	AV3
22	72	68	18	AV4
22	72	70	14	AV2
22	72	70	36	AV3
22	72	70	44	AV4
22	72	70	30	AV5
22	72	82	7	AV4
22	73	61	27	AV2
22	73	61	31	AV3
22	73	61	35	AV4
22	73	61	25	AV5
22	73	63	31	AV3
22	73	63	21	AV4
22	73	63	15	AV5
22	73	65	5	AV2
22	73	65	10	AV3
22	73	65	18	AV4
22	73	65	18	AV5
22	73	75	33	AV2
22	73	75	32	AV3
22	73	75	18	AV4
22	73	75	16	AV5
22	73	77	12	AV4
22	73	77	20	AV5
22	74	48	11	AV3
22	74	48	7	AV4
22	74	58	33	AV2
22	74	58	37	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	74	58	38	AV4
22	74	58	32	AV5
22	74	62	10	AV1
22	74	62	23	AV2
22	74	62	37	AV3
22	74	62	38	AV4
22	74	62	26	AV5
22	74	62	11	AV6
22	74	64	26	AV2
22	74	64	21	AV3
22	74	64	18	AV4
22	74	64	31	AV5
22	74	66	8	AV2
22	74	66	8	AV3
22	75	55	7	AV2
22	75	55	28	AV3
22	75	55	34	AV4
22	75	55	28	AV5
22	75	61	10	AV3
22	75	61	10	AV4
22	75	63	8	AV1
22	75	63	31	AV2
22	75	63	42	AV3
22	75	63	39	AV4
22	75	63	30	AV5
22	75	65	7	AV2
22	75	65	27	AV3
22	75	65	32	AV4
22	75	65	23	AV5
22	76	54	12	AV3
22	76	54	24	AV4
22	76	54	12	AV5
22	76	60	14	AV3
22	76	60	17	AV4
22	76	64	36	AV2
22	76	64	17	AV3
22	76	64	25	AV4
22	76	64	28	AV5

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	76	64	11	AV6
22	76	68	31	AV3
22	76	68	36	AV4
22	76	68	27	AV5
22	76	72	18	AV3
22	76	72	28	AV4
22	76	72	9	AV5
22	77	63	10	AV2
22	77	63	23	AV3
22	77	63	23	AV4
22	77	65	5	AV2
22	77	65	7	AV3
22	77	65	17	AV4
22	77	65	15	AV5
22	77	75	6	AV5
22	77	79	15	AV3
22	77	79	11	AV4
22	78	54	34	AV2
22	78	54	31	AV3
22	78	54	33	AV4
22	78	54	14	AV5
22	78	58	16	AV2
22	78	58	31	AV3
22	78	58	30	AV4
22	78	58	25	AV5
22	78	60	8	AV2
22	78	60	26	AV3
22	78	60	24	AV4
22	78	60	10	AV5
22	78	62	9	AV1
22	78	62	11	AV2
22	78	62	39	AV3
22	78	62	39	AV4
22	78	62	30	AV5
22	78	62	12	AV6
22	78	64	38	AV2
22	78	64	28	AV3
22	78	64	36	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	78	64	12	AV5
22	78	64	6	AV6
22	79	59	9	AV2
22	79	59	14	AV4
22	79	59	23	AV5
22	79	61	22	AV2
22	79	61	36	AV3
22	79	61	39	AV4
22	79	61	26	AV5
22	79	63	21	AV3
22	79	63	22	AV4
22	79	67	16	AV3
22	79	67	32	AV4
22	79	67	24	AV5
22	79	73	8	AV5
22	80	60	16	AV2
22	80	60	28	AV3
22	80	60	26	AV4
22	80	60	10	AV5
22	80	62	14	AV4
22	80	64	5	AV2
22	80	64	12	AV3
22	80	78	12	AV4
22	80	78	16	AV5
22	81	57	17	AV2
22	81	57	20	AV3
22	81	57	19	AV4
22	81	57	17	AV5
22	81	61	25	AV2
22	81	61	36	AV3
22	81	61	44	AV4
22	81	61	35	AV5
22	81	63	10	AV1
22	81	63	33	AV2
22	81	63	38	AV3
22	81	63	28	AV4
22	81	63	31	AV5
22	81	65	21	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	81	65	19	AV4
22	81	65	18	AV5
22	81	69	14	AV2
22	81	69	23	AV3
22	81	69	7	AV4
22	81	69	18	AV5
22	82	56	18	AV4
22	82	56	18	AV5
22	82	60	22	AV2
22	82	60	32	AV3
22	82	60	31	AV4
22	82	60	26	AV5
22	82	60	6	AV6
22	82	66	6	AV1
22	82	66	25	AV2
22	82	66	31	AV3
22	82	66	29	AV4
22	82	66	35	AV5
22	82	74	20	AV2
22	82	74	11	AV3
22	83	65	29	AV2
22	83	65	30	AV3
22	83	65	37	AV4
22	83	65	28	AV5
22	83	67	10	AV2
22	83	67	37	AV3
22	83	67	38	AV4
22	83	67	31	AV5
22	83	69	5	AV2
22	84	58	6	AV2
22	84	58	15	AV3
22	84	58	9	AV4
22	84	62	35	AV2
22	84	62	16	AV3
22	84	62	29	AV4
22	84	64	18	AV1
22	84	64	31	AV2
22	84	64	36	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	84	64	41	AV4
22	84	64	39	AV5
22	84	64	19	AV6
22	85	59	26	AV2
22	85	59	35	AV3
22	85	59	34	AV4
22	85	59	32	AV5
22	85	61	9	AV4
22	85	63	11	AV3
22	85	63	6	AV4
22	85	67	24	AV3
22	85	67	34	AV4
22	85	67	34	AV5
22	85	69	10	AV3
22	85	69	9	AV4
22	85	71	11	AV3
22	86	52	7	AV4
22	86	54	13	AV3
22	86	54	25	AV4
22	86	54	18	AV5
22	86	56	9	AV2
22	86	56	22	AV4
22	86	56	26	AV5
22	86	60	12	AV1
22	86	60	26	AV2
22	86	60	38	AV3
22	86	60	39	AV4
22	86	60	40	AV5
22	86	60	15	AV6
22	86	64	7	AV4
22	86	64	17	AV5
22	86	64	8	AV6
22	87	47	8	AV4
22	87	59	31	AV2
22	87	59	35	AV3
22	87	59	30	AV4
22	87	59	39	AV5
22	87	59	9	AV6

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	87	61	24	AV2
22	87	61	35	AV3
22	87	61	35	AV4
22	87	61	27	AV5
22	87	63	11	AV3
22	87	63	12	AV4
22	87	63	17	AV5
22	88	52	7	AV2
22	88	52	5	AV3
22	88	58	37	AV2
22	88	58	36	AV3
22	88	58	37	AV4
22	88	58	33	AV5
22	88	62	8	AV3
22	88	62	33	AV4
22	88	62	31	AV5
22	88	66	6	AV3
22	88	72	7	AV2
22	88	72	5	AV3
22	88	74	16	AV2
22	88	78	8	AV5
22	89	51	7	AV3
22	89	53	6	AV2
22	89	53	19	AV4
22	89	55	17	AV2
22	89	55	28	AV3
22	89	55	23	AV4
22	89	59	7	AV1
22	89	59	23	AV2
22	89	59	17	AV3
22	89	59	8	AV4
22	89	59	9	AV5
22	89	61	16	AV2
22	89	61	21	AV3
22	89	61	11	AV5
22	89	63	10	AV2
22	89	63	18	AV3
22	89	63	15	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	90	54	9	AV3
22	90	60	10	AV2
22	90	62	21	AV1
22	90	62	30	AV2
22	90	62	28	AV3
22	90	62	27	AV4
22	91	51	8	AV5
22	91	59	13	AV2
22	91	59	12	AV3
22	91	59	21	AV4
22	91	59	23	AV5
22	91	59	5	AV6
22	92	50	9	AV3
22	92	50	25	AV4
22	92	52	15	AV1
22	92	52	31	AV2
22	92	52	11	AV5
22	92	54	14	AV2
22	92	54	26	AV4
22	92	54	28	AV5
22	92	70	7	AV2
22	92	70	18	AV3
22	92	70	8	AV5
22	93	49	11	AV4
22	93	57	8	AV2
22	93	57	16	AV3
22	93	57	20	AV4
22	93	57	10	AV5
22	93	59	13	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	10	AV5
22	93	67	7	AV6
22	93	69	12	AV3
22	93	69	6	AV5



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	94	56	9	AV2
22	94	56	13	AV4
22	94	56	6	AV5
22	94	60	29	AV2
22	94	60	34	AV3
22	94	60	38	AV4
22	94	60	24	AV5
22	94	62	6	AV4
22	95	53	7	AV2
22	95	55	10	AV2
22	95	55	21	AV3
22	95	55	9	AV4
22	95	57	22	AV4
22	95	57	23	AV5
22	95	59	24	AV2
22	95	59	30	AV3
22	95	59	28	AV4
22	95	59	14	AV5
22	95	59	5	AV6
22	95	61	8	AV2
22	95	61	26	AV3
22	95	61	18	AV4
22	96	58	5	AV2
22	96	60	10	AV2
22	96	62	30	AV2
22	96	62	26	AV3
22	96	62	34	AV4
22	96	62	14	AV5
22	97	51	7	AV3
22	97	51	20	AV4
22	97	51	21	AV5
22	97	57	12	AV3
22	97	57	17	AV4
22	97	57	13	AV5
22	97	59	6	AV1
22	97	59	28	AV2
22	97	59	34	AV3
22	97	59	28	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
22	97	59	31	AV5
22	97	59	13	AV6
22	97	63	29	AV2
22	97	63	33	AV3
22	97	63	35	AV4
22	97	63	34	AV5
22	97	71	11	AV5
22	98	52	12	AV2
22	98	56	6	AV2
22	98	58	22	AV3
22	98	58	21	AV4
22	98	58	8	AV5
22	98	60	7	AV4
22	98	60	5	AV5
22	98	62	8	AV5
22	98	66	8	AV4
22	98	66	13	AV5
22	98	78	25	AV2
22	98	78	18	AV3
22	98	78	6	AV4
22	98	78	6	AV5
22	98	78	6	AV6
22	99	51	14	AV2
22	99	51	21	AV3
22	99	51	25	AV4
22	99	51	26	AV5
22	99	59	12	AV2
22	99	59	13	AV4
22	99	59	26	AV5
22	99	59	8	AV6
22	101	59	27	AV1
22	101	59	46	AV2
22	101	59	40	AV3
22	101	59	35	AV4
22	101	59	31	AV5
22	101	59	7	AV6
22	101	73	5	AV2
23	46	12	5	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
23	54	48	5	AV2
23	54	50	8	AV3
23	54	50	9	AV4
23	54	82	6	AV3
23	54	82	4	AV4
23	58	82	5	AV1
23	58	82	7	AV3
23	58	82	11	AV4
23	58	82	10	AV5
23	59	73	8	AV3
23	59	73	8	AV4
23	59	73	5	AV5
23	59	75	6	AV3
23	59	75	5	AV4
23	59	75	5	AV5
23	59	75	6	AV6
23	63	51	6	AV3
23	63	81	9	AV5
23	64	74	11	AV2
23	64	74	24	AV3
23	64	74	27	AV4
23	64	74	26	AV5
23	67	61	7	AV2
23	67	61	22	AV3
23	67	61	20	AV4
23	67	61	8	AV5
23	67	73	9	AV2
23	67	73	8	AV3
23	67	73	14	AV4
23	67	73	15	AV5
23	68	78	17	AV3
23	68	78	10	AV4
23	69	59	5	AV2
23	69	59	5	AV3
23	69	65	3	AV3
23	69	65	4	AV5
23	70	58	5	AV2
23	70	58	23	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
23	70	58	18	AV4
23	70	68	10	AV2
23	70	68	9	AV3
23	70	68	5	AV4
23	70	68	5	AV5
23	71	69	10	AV3
23	71	69	11	AV4
23	73	75	11	AV3
23	73	75	15	AV4
23	75	61	6	AV2
23	75	61	11	AV3
23	75	61	10	AV4
23	75	65	6	AV2
23	75	65	17	AV3
23	75	65	32	AV4
23	75	65	30	AV5
23	75	73	10	AV3
23	75	73	12	AV4
23	75	73	21	AV5
23	76	72	5	AV2
23	76	72	6	AV3
23	76	72	8	AV4
23	77	73	13	AV2
23	77	73	13	AV3
23	77	73	23	AV4
23	77	73	16	AV5
23	79	61	8	AV3
23	79	65	5	AV2
23	79	65	10	AV4
23	79	65	7	AV5
23	79	73	6	AV3
23	81	71	4	AV2
23	81	71	7	AV4
23	81	71	10	AV5
23	83	67	6	AV2
23	83	67	18	AV5
23	84	66	6	AV2
23	86	64	8	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
23	86	68	5	AV2
23	86	68	6	AV4
23	86	68	9	AV5
23	88	58	6	AV2
23	88	58	20	AV3
23	88	58	34	AV4
23	88	58	25	AV5
23	88	64	11	AV2
23	88	64	16	AV3
23	88	64	25	AV4
23	89	59	9	AV3
23	89	59	6	AV4
23	91	61	7	AV4
23	91	63	9	AV2
23	91	63	26	AV5
23	91	71	6	AV2
23	91	73	22	AV2
23	91	73	18	AV3
23	91	73	14	AV4
23	91	73	10	AV5
23	91	73	7	AV6
23	92	50	5	AV3
23	92	56	8	AV2
23	92	56	5	AV3
23	92	56	20	AV4
23	92	56	18	AV5
23	92	58	27	AV2
23	92	58	30	AV3
23	92	58	31	AV4
23	92	58	20	AV5
23	92	62	12	AV3
23	92	62	15	AV4
23	93	57	5	AV2
23	93	65	4	AV3
23	94	64	5	AV2
23	95	51	11	AV4
23	95	51	10	AV5
23	95	73	7	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
23	95	73	16	AV4
23	95	73	9	AV5
23	97	75	10	AV5
23	98	50	5	AV4
23	98	54	7	AV5
23	100	50	8	AV3
23	100	78	28	AV2
23	100	78	19	AV3
23	100	78	19	AV4
23	100	78	19	AV5
23	100	78	8	AV6
23	102	64	11	AV4
23	102	64	26	AV5
23	102	64	13	AV6
24	46	64	4	AV5
24	47	9	5	AV2
24	50	64	4	AV5
24	51	47	6	AV3
24	51	79	9	AV2
24	51	79	24	AV3
24	51	79	25	AV4
24	51	79	18	AV5
24	51	81	13	AV3
24	51	81	7	AV4
24	52	44	11	AV3
24	52	44	11	AV4
24	52	44	8	AV5
24	53	43	6	AV2
24	53	53	3	AV2
24	53	53	16	AV3
24	53	53	24	AV4
24	53	53	19	AV5
24	53	53	11	AV6
24	53	67	8	AV2
24	53	67	8	AV3
24	53	67	8	AV4
24	53	73	5	AV4
24	53	77	4	AV2

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	53	77	7	AV3
24	53	77	8	AV4
24	53	77	5	AV5
24	55	45	5	AV3
24	55	45	8	AV4
24	55	71	5	AV2
24	55	79	7	AV3
24	55	79	8	AV4
24	56	46	8	AV3
24	56	46	9	AV4
24	56	70	10	AV1
24	56	70	10	AV3
24	57	41	5	AV3
24	57	49	8	AV3
24	57	49	12	AV4
24	57	49	14	AV5
24	57	55	5	AV5
24	57	67	5	AV5
24	57	73	5	AV5
24	58	46	15	AV3
24	58	46	17	AV4
24	58	46	12	AV5
24	59	61	7	AV3
24	59	61	9	AV4
24	59	65	21	AV1
24	59	65	7	AV2
24	59	65	8	AV3
24	59	65	14	AV4
24	59	65	9	AV5
24	59	65	11	AV6
24	59	67	6	AV2
24	59	67	12	AV3
24	59	67	9	AV4
24	59	67	10	AV5
24	59	73	13	AV2
24	59	73	19	AV3
24	59	73	22	AV4
24	59	73	16	AV5

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	60	46	10	AV3
24	60	46	11	AV4
24	60	56	9	AV5
24	62	44	22	AV3
24	62	44	23	AV4
24	62	44	25	AV5
24	62	44	12	AV6
24	63	59	5	AV3
24	63	71	5	AV2
24	63	71	8	AV4
24	63	71	10	AV5
24	64	64	10	AV2
24	64	64	10	AV3
24	64	64	11	AV5
24	64	66	4	AV1
24	64	66	4	AV2
24	64	66	9	AV3
24	64	66	10	AV4
24	65	63	8	AV4
24	65	69	5	AV4
24	65	71	8	AV2
24	66	64	14	AV2
24	66	64	14	AV3
24	66	64	6	AV4
24	66	66	12	AV4
24	66	66	8	AV5
24	66	68	7	AV2
24	66	68	14	AV3
24	66	68	14	AV4
24	67	65	9	AV1
24	67	65	24	AV2
24	67	65	27	AV3
24	67	65	30	AV4
24	67	65	18	AV5
24	67	65	12	AV6
24	67	67	7	AV2
24	67	67	19	AV3
24	67	67	18	AV4



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	67	67	13	AV5
24	67	69	6	AV2
24	67	69	9	AV3
24	67	69	13	AV4
24	67	69	6	AV5
24	68	64	10	AV2
24	68	64	13	AV3
24	68	64	11	AV4
24	68	64	17	AV5
24	68	66	6	AV5
24	68	68	10	AV3
24	68	68	12	AV4
24	68	68	8	AV5
24	68	70	9	AV2
24	68	70	12	AV3
24	68	70	10	AV4
24	68	70	12	AV5
24	68	74	7	AV2
24	68	74	26	AV3
24	68	74	29	AV4
24	68	74	26	AV5
24	68	74	10	AV6
24	68	76	8	AV4
24	68	76	7	AV5
24	69	65	12	AV4
24	69	65	9	AV5
24	69	69	19	AV2
24	69	69	32	AV3
24	69	69	31	AV4
24	69	69	22	AV5
24	69	71	6	AV1
24	69	71	25	AV2
24	69	71	14	AV3
24	69	71	26	AV4
24	69	71	18	AV5
24	69	71	5	AV6
24	70	58	11	AV2
24	70	58	31	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	70	58	30	AV4
24	70	58	27	AV5
24	70	58	5	AV6
24	70	66	4	AV1
24	70	66	12	AV2
24	70	66	19	AV3
24	70	66	22	AV4
24	70	66	5	AV5
24	70	66	9	AV6
24	70	68	15	AV2
24	70	68	22	AV3
24	70	68	25	AV4
24	70	68	15	AV5
24	70	74	11	AV2
24	70	74	21	AV3
24	70	74	19	AV4
24	70	74	13	AV5
24	70	76	19	AV2
24	70	76	7	AV4
24	70	76	13	AV5
24	71	65	14	AV3
24	71	65	6	AV4
24	71	67	16	AV2
24	71	67	12	AV3
24	71	67	10	AV4
24	71	67	20	AV5
24	71	67	7	AV6
24	71	71	27	AV2
24	71	71	33	AV3
24	71	71	32	AV4
24	71	71	15	AV5
24	71	71	4	AV6
24	71	73	12	AV2
24	71	73	9	AV3
24	71	73	10	AV4
24	72	64	12	AV2
24	72	64	36	AV3
24	72	64	7	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	72	64	31	AV5
24	72	68	7	AV2
24	72	68	33	AV3
24	72	68	35	AV4
24	72	68	23	AV5
24	72	68	11	AV6
24	72	70	24	AV2
24	72	70	38	AV3
24	72	70	39	AV4
24	72	70	33	AV5
24	72	70	10	AV6
24	73	61	12	AV2
24	73	61	21	AV3
24	73	61	16	AV4
24	73	61	14	AV5
24	73	65	9	AV2
24	73	65	26	AV3
24	73	65	28	AV4
24	73	65	8	AV5
24	73	65	11	AV6
24	73	67	14	AV2
24	73	67	25	AV3
24	73	67	22	AV4
24	73	67	17	AV5
24	73	69	14	AV2
24	73	69	18	AV3
24	73	69	32	AV4
24	73	69	22	AV5
24	74	66	14	AV1
24	74	66	25	AV2
24	74	66	35	AV3
24	74	66	33	AV4
24	74	66	33	AV5
24	74	66	16	AV6
24	74	72	14	AV1
24	74	72	24	AV2
24	74	72	18	AV3
24	74	72	24	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	74	72	33	AV5
24	74	72	11	AV6
24	75	69	34	AV2
24	75	69	34	AV3
24	75	69	37	AV4
24	75	69	30	AV5
24	75	71	11	AV2
24	75	71	7	AV3
24	75	71	15	AV4
24	75	71	9	AV5
24	76	62	23	AV3
24	76	62	23	AV4
24	76	62	17	AV5
24	76	62	6	AV6
24	76	66	20	AV2
24	76	66	42	AV3
24	76	66	37	AV4
24	76	66	34	AV5
24	76	66	22	AV6
24	77	65	37	AV2
24	77	65	34	AV3
24	77	65	33	AV4
24	77	65	24	AV5
24	77	65	13	AV6
24	77	67	13	AV2
24	77	67	14	AV3
24	77	67	28	AV4
24	77	67	11	AV5
24	77	69	12	AV2
24	77	69	8	AV4
24	77	71	30	AV2
24	77	71	38	AV3
24	77	71	37	AV4
24	77	71	29	AV5
24	77	73	30	AV4
24	77	73	28	AV5
24	77	73	7	AV6
24	78	62	24	AV3

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	78	62	30	AV4
24	78	62	27	AV5
24	78	62	9	AV6
24	78	64	19	AV2
24	78	64	39	AV3
24	78	64	35	AV5
24	78	64	8	AV6
24	78	66	24	AV2
24	78	66	30	AV3
24	78	66	30	AV4
24	78	66	27	AV5
24	78	66	7	AV6
24	79	63	26	AV2
24	79	63	35	AV3
24	79	63	21	AV4
24	79	63	29	AV5
24	79	63	10	AV6
24	79	65	13	AV2
24	79	65	18	AV3
24	79	65	27	AV4
24	79	65	12	AV5
24	79	67	11	AV2
24	79	67	17	AV3
24	79	67	28	AV4
24	79	67	23	AV5
24	79	67	6	AV6
24	80	60	7	AV5
24	80	62	6	AV2
24	80	62	11	AV4
24	80	64	20	AV2
24	80	64	36	AV3
24	80	64	34	AV5
24	80	68	16	AV2
24	80	68	15	AV3
24	80	68	27	AV4
24	80	68	5	AV5
24	80	74	38	AV3
24	80	74	38	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	80	74	26	AV5
24	81	45	12	AV4
24	81	45	14	AV5
24	81	57	6	AV3
24	81	57	6	AV4
24	81	57	8	AV5
24	81	59	7	AV2
24	81	59	8	AV3
24	81	59	14	AV4
24	81	59	9	AV5
24	81	61	11	AV2
24	81	61	24	AV3
24	81	61	13	AV4
24	81	63	3	AV3
24	81	63	8	AV4
24	81	65	37	AV2
24	81	65	38	AV3
24	81	65	37	AV4
24	81	65	38	AV5
24	81	65	16	AV6
24	81	67	5	AV1
24	81	67	22	AV2
24	81	67	10	AV3
24	81	67	21	AV4
24	81	67	22	AV5
24	81	71	27	AV2
24	81	71	21	AV3
24	81	71	28	AV4
24	81	71	27	AV5
24	82	64	9	AV2
24	82	64	21	AV3
24	82	64	22	AV5
24	82	66	9	AV2
24	82	66	6	AV4
24	83	55	6	AV2
24	83	61	8	AV2
24	83	61	21	AV3
24	83	61	29	AV4

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	83	61	30	AV5
24	83	63	28	AV3
24	83	63	21	AV4
24	83	63	20	AV5
24	83	67	6	AV4
24	83	67	7	AV5
24	84	60	8	AV4
24	84	60	5	AV5
24	85	55	6	AV2
24	85	55	11	AV3
24	85	55	22	AV4
24	85	55	31	AV5
24	85	55	9	AV6
24	85	57	9	AV2
24	85	57	10	AV3
24	85	57	17	AV4
24	85	57	7	AV5
24	85	61	6	AV2
24	85	61	24	AV3
24	85	61	28	AV4
24	85	61	14	AV5
24	85	65	26	AV2
24	85	65	20	AV3
24	85	65	11	AV4
24	85	65	27	AV5
24	85	67	8	AV2
24	85	71	15	AV2
24	85	71	19	AV3
24	85	71	33	AV4
24	85	71	32	AV5
24	86	58	4	AV2
24	86	58	6	AV3
24	86	58	18	AV4
24	86	60	8	AV1
24	86	60	29	AV2
24	86	60	42	AV3
24	86	60	40	AV4
24	86	60	37	AV5

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	86	60	13	AV6
24	86	66	9	AV4
24	87	53	6	AV2
24	87	61	9	AV2
24	87	61	10	AV3
24	87	61	15	AV4
24	87	61	5	AV5
24	87	63	7	AV4
24	87	63	8	AV5
24	89	57	15	AV4
24	89	57	15	AV5
24	90	64	8	AV2
24	90	64	6	AV3
24	90	68	33	AV2
24	90	68	35	AV3
24	90	68	35	AV4
24	90	68	22	AV5
24	91	63	4	AV3
24	91	65	10	AV1
24	91	65	29	AV2
24	91	65	17	AV3
24	91	65	21	AV4
24	91	69	15	AV2
24	91	69	7	AV3
24	91	69	23	AV4
24	91	69	24	AV5
24	91	75	13	AV6
24	92	62	12	AV2
24	92	62	22	AV3
24	92	62	32	AV4
24	92	62	35	AV5
24	92	76	22	AV2
24	93	49	9	AV3
24	93	49	19	AV4
24	93	53	18	AV3
24	93	53	38	AV4
24	93	53	41	AV5
24	93	53	32	AV6



## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	93	55	6	AV2
24	93	55	19	AV3
24	93	55	15	AV4
24	93	59	5	AV2
24	93	69	13	AV2
24	93	69	5	AV3
24	93	69	17	AV4
24	93	69	31	AV5
24	93	71	6	AV2
24	93	71	15	AV3
24	93	71	15	AV4
24	94	48	8	AV2
24	94	50	8	AV2
24	94	50	11	AV3
24	94	58	21	AV2
24	94	58	19	AV3
24	94	58	24	AV4
24	94	58	21	AV5
24	94	60	27	AV2
24	94	60	36	AV3
24	94	60	37	AV4
24	94	60	16	AV6
24	94	68	15	AV3
24	94	68	10	AV4
24	94	70	34	AV2
24	94	70	23	AV3
24	94	70	28	AV4
24	94	70	23	AV5
24	95	57	12	AV2
24	95	57	6	AV3
24	95	57	10	AV4
24	95	57	12	AV5
24	95	61	13	AV2
24	95	61	17	AV3
24	95	61	37	AV4
24	95	61	22	AV5
24	95	61	11	AV6
24	95	65	15	AV2

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	95	65	10	AV3
24	95	65	19	AV4
24	95	65	28	AV5
24	96	60	12	AV2
24	96	60	15	AV3
24	96	60	11	AV4
24	96	64	13	AV4
24	96	64	19	AV5
24	96	76	7	AV2
24	97	51	12	AV2
24	97	51	15	AV3
24	97	51	9	AV5
24	97	59	7	AV2
24	97	77	15	AV2
24	97	77	18	AV3
24	97	77	12	AV4
24	98	50	8	AV3
24	98	50	17	AV4
24	98	50	8	AV5
24	98	50	8	AV6
24	98	52	19	AV2
24	98	54	16	AV4
24	98	54	26	AV5
24	98	54	15	AV6
24	98	78	7	AV2
24	100	50	7	AV3
24	100	56	20	AV2
24	100	56	7	AV3
24	100	56	19	AV4
24	100	56	32	AV5
24	100	76	9	AV1
24	100	76	18	AV2
24	101	53	8	AV2
24	101	53	6	AV3
24	101	53	13	AV4
24	101	53	19	AV5
24	101	59	11	AV2
24	101	59	8	AV5

## 2R19 Service Induced Indications (AVB Wear)

SG	ROW	COL	%TW	SUPPORT
24	102	70	21	AV2
24	102	70	11	AV3
24	102	72	15	AV2

Attachment 6  
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2R19 Service Induced Indications (TSP Wear)

## 2R19 Service Induced Indications (TSP Wear)

SG	Tube		Elevation	2R19 %TW
	Row	Col	TSP+/- inch	
21	1	63	06C -0.73	9
21	1	63	06C +0.36	13
21	1	63	07C -0.74	15
21	1	63	07C +0.34	24
21	14	96	07H -0.81	7
21	78	66	05H -0.74	7
21	93	65	04H -0.72	10
21	100	80	05H +0.44	8
22	1	63	02H +0.48	5
22	1	63	02H -0.67	18
22	3	111	06C -0.74	8
23	1	97	05C +0.3	11
23	15	125	05H +0.35	9
23	53	51	06H -0.74	10
23	97	43	04H +0.44	8
24	1	63	06C -0.2	8
24	1	67	06C -0.74	9
24	1	83	06C -0.75	9
24	1	89	05C +0.36	10
24	1	89	06C -0.85	11
24	1	89	05C -0.86	11
24	1	63	05C -0.28	13
24	2	44	07C -0.71	8
24	61	91	06H -0.75	8
24	69	29	03H -0.65	8
24	98	82	07H +0.42	11