

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation.
 Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LOWGN	FIVE	LOWGN5.LOWGN	FOUR	04/05/2012	15 NOV 2012

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 17C: CLIMB HEADING 174.27 TO INTERCEPT COURSE 155.17 TO NAVYE, THEN ON TRACK 104.51 TO JGIRL, CROSS JGIRL AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 17R: CLIMB HEADING 174.26 TO INTERCEPT COURSE 153.02 TO NAVYE, THEN ON TRACK 104.51 TO JGIRL, CROSS JGIRL AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 18L: CLIMB HEADING 174.25 TO INTERCEPT COURSE 190.53 TO BPARK, THEN ON TRACK 252.87 TO YAMEL, CROSS YAMEL AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 18R: CLIMB HEADING 174.25 TO INTERCEPT COURSE 190.00 TO BPARK, THEN ON TRACK 252.87 TO YAMEL, CROSS YAMEL AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 31L, 31R: CLIMB ON ASSIGNED HEADING FOR RADAR VECTORS TO LOWGN, MAINTAIN 5000. THENCE...

TAKEOFF RWY 35C: CLIMB HEADING 354.27 TO 1120, THEN DIRECT CUZEN, CROSS CUZEN AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 35L: CLIMB HEADING 354.26 TO 1120, THEN DIRECT CUZEN, CROSS CUZEN AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 36L: CLIMB HEADING 354.25 TO 1120, THEN DIRECT HAZKL, CROSS HAZKL AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

TAKEOFF RWY 36R: CLIMB HEADING 354.25 TO 1120, THEN DIRECT HAZKL, CROSS HAZKL AT OR ABOVE 5000, THEN ON DEPICTED ROUTE TO LOWGN. THENCE...

... (TRANSITION). MAINTAIN 10000, EXPECT FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
ARDMORE	LOWGN5.ADM	LOWGN	ADM VORTAC	TRACK 359.09	45.75	4000	2400	
ROLLS	LOWGN5.ROLLS	LOWGN	ADM VORTAC	TRACK 359.09	45.75	4000	2400	
		ADM VORTAC	MRMAC	TRACK 303.22	60.00	15000	2700	
		MRMAC	ROLLS	TRACK 302.69	85.20	15000	4500	

QUALITY
CHECKED

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PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: TAKEOFF RWY 18L, 18R: DO NOT EXCEED 240 KIAS UNTIL YAMEL.
NOTE: TAKEOFF RWY 35C, 35L: DO NOT EXCEED 240 KIAS UNTIL CUZEN.
NOTE: TAKEOFF RWY 17C, 17R: DO NOT EXCEED 240 KIAS UNTIL JGIRL.
NOTE: TAKEOFF RWY 36L, 36R: DO NOT EXCEED 240 KIAS UNTIL HAZKL.
NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.
NOTE: PROPS: FILE AND EXPECT JACKY OR TRI-GATE DEPARTURE.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT, AND ALL AIRCRAFT DEPARTING RUNWAYS 31L/R.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: ROLLS TRANSITION (LOWGN5.ROLLS): FOR ALL AIRCRAFT PROCEEDING NORTHWESTBOUND VIA J52.

TAKEOFF MINIMUMS:

RWY 13L, 13R, 17L, 35R NA - AIR TRAFFIC.
RWY 17C, 17R, 18L, 18R, 35C, 35L, 36L, 36R, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 5000.
RWY 31L, 31R STANDARD.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 31L, TREES BEGINNING 928 FT FROM DER, 724 FT LEFT OF CENTERLINE, UP TO 55 FT AGL/654 FT MSL. TREE 1229 FT FROM DER, 729 FT RIGHT OF CENTERLINE, 28 FT AGL/637 FT MSL. TRMSN POLE 3402 FT FROM DER, 1398 FT RIGHT OF CENTERLINE, 89 FT AGL/708 FT MSL.

NOTE: RWY 31R, BLDG 733 FT FROM DER, 632 FT LEFT OF CENTERLINE, 34 FT AGL/604 FT MSL.

CONTROLLING OBSTACLES:**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KDFW 6E EPOCH YR: 2000
DME/DME ASSESSMENT: SAT (RNP 2.0)

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON LOWGN (IF), CW
FROM: POINT A (BEARING 315 DEGREES TO LOWGN)
TO: POINT B (BEARING 044 DEGREES TO LOWGN)
MINIMUM ALTITUDE – 4000

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AIRPORTS SERVED:

DALLAS/FORT WORTH INTL

DALLAS-FORT WORTH, TX

COMMUNICATIONS:

CLNC DEL, ATIS, GND CON, DFW ATCT, DFW DEP CON

FIXES AND/OR NAVAIDS:

AKUNA, BLECO, EAKER, GRABE, TIKYS, ZEMMA.

REMARKS:

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CHANGES:

1. DP ROUTE DESCRIPTION RWY 18R CHANGED INTERCEPT COURSE FROM 188.44 TO 190.00.
2. CHANGED ALL REFERENCE FROM LOWGN4 TO LOWGN5.

REASONS:

1. PUBLISHED COURSE DID NOT MATCH TARGETS.
2. IAW AMENDING THE PROCEDURE AND CHANGING COMPUTER CODE.

QUALITY
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CHECKED

DEPARTURE (DATA RECORD)

DP Name		Number	DP Computer Code		Superseded Number		Dated	Effective Date	
LOWGN		FIVE	LOWGN5.LOWGN		FOUR		04/05/2012	15 NOV 2012	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW17C (AER)	325456.55N/0970133.49W	N	-	-	-	-			VI/CF PERMITTED
-	325136.63N/0970134.60W	-	-	VI	180.27	3.33			CG 500 FT/NM TO 5000.
NAVYE	324657.75N/0965942.05W	Y	FB	CF	161.17	4.90			RECOMMENDED NAVAID: TTT VOR/DME
JGIRL	324554.36N/0965621.63W	Y	FB	TF	110.51	3.01	AT/ABOVE 5000	AT/BELOW 240K	
CORTS	324607.65N/0964953.59W	Y	FB	TF	087.65	5.46			
BIGGD	325131.59N/0964833.10W	Y	FB	TF	011.84	5.51			
CMORE	325916.66N/0964832.49W	Y	FB	TF	000.06	7.74			
LOWGN	332702.70N/0971459.29W	Y	FB	TF	321.44	35.50			
RW17R (AER)	325456.60N/0970147.58W	N	-	-	-	-			VI/CF PERMITTED
-	325136.69N/0970148.65W	-	-	VI	180.26	3.33			CG 500 FT/NM TO 5000.
NAVYE	324657.75N/0965942.05W	Y	FB	CF	159.02	4.97			RECOMMENDED NAVAID: TTT VOR/DME
JGIRL	324554.36N/0965621.63W	Y	FB	TF	110.51	3.01	AT/ABOVE 5000	AT/BELOW 240K	
CORTS	324607.65N/0964953.59W	Y	FB	TF	087.65	5.46			
BIGGD	325131.59N/0964833.10W	Y	FB	TF	011.84	5.51			
CMORE	325916.66N/0964832.49W	Y	FB	TF	000.06	7.74			
LOWGN	332702.70N/0971459.29W	Y	FB	TF	321.44	35.50			
RW18L (AER)	325456.88N/0970302.65W	N	-	-	-	-			VI/CF PERMITTED
-	325138.77N/0970303.67W	-	-	VI	180.25	3.30			CG 500 FT/NM TO 5000.
BPARK	324631.76N/0970451.51W	Y	FB	CF	196.53	5.33			RECOMMENDED NAVAID: TTT VOR/DME
YAMEL	324555.70N/0970828.05W	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K	
FIRMN	324617.77N/0971428.77W	Y	FB	TF	274.17	5.08			
BINGM	325027.25N/0971627.44W	Y	FB	TF	338.12	4.47			
BEMMR	330006.19N/0971613.39W	Y	FB	TF	001.17	9.63			
LOWGN	332702.70N/0971459.29W	Y	FB	TF	002.20	26.91			

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DEPARTURE (DATA RECORD)

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LOWGN		FIVE	LOWGN5.LOWGN				FOUR		04/05/2012	15 NOV 2012
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW18R (AER)	325456.93N/0970316.71W	N	-	-	-	-			VI/CF PERMITTED	
-	325107.56N/0970317.90W	-	-	VI	180.25	3.82			CG 500 FT/NM TO 5000.	
BPARK	324631.76N/0970451.51W	Y	FB	CF	196.00	4.77			RECOMMENDED NAVAID: TTT VOR/DME	
YAMEL	324555.70N/0970828.05W	Y	FB	TF	258.87	3.10	AT/ABOVE 5000	AT/BELOW 240K		
FIRMN	324617.77N/0971428.77W	Y	FB	TF	274.17	5.08				
BINGM	325027.25N/0971627.44W	Y	FB	TF	338.12	4.47				
BEMMR	330006.19N/0971613.39W	Y	FB	TF	001.17	9.63				
LOWGN	332702.70N/0971459.29W	Y	FB	TF	002.20	26.91				
RW31L (AER)	325324.97N/0970347.79W	N	-	-	-	-				
		-	-	VM	319.06	-				
LOWGN	332702.70N/0971459.29W	Y	FB	DF	-	-				
RW31R (AER)	325341.93N/0970003.04W	N	-	-	-	-				
		-	-	VM	315.28	-				
LOWGN	332702.70N/0971459.29W	Y	FB	DF	-	-				
RW35C (AER)	325243.96N/0970134.22W	N	-	-	-	-				
1120 MSL	-	-	-	VA	000.27	-			CG 500 FT/NM TO 5000.	
CUZEN	330439.55N/0970130.12W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K		
FLAGZ	330945.88N/0970037.41W	Y	FB	TF	008.23	5.15				
LOWGN	332702.70N/0971459.29W	Y	FB	TF	325.15	21.03				
RW35L (AER)	325244.02N/0970148.29W	N	-	-	-	-				
1120 MSL	-	-	-	VA	000.26	-			CG 500 FT/NM TO 5000.	
CUZEN	330439.55N/0970130.12W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K		
FLAGZ	330945.88N/0970037.41W	Y	FB	TF	008.23	5.15				
LOWGN	332702.70N/0971459.29W	Y	FB	TF	325.15	21.03				

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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW36L (AER)	325244.35N/0970317.40W	N	-	-	-	-			
1120 MSL	-	-	-	VA	000.25	-			CG 500 FT/NM TO 5000.
HAZKL	330415.04N/0970311.58W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	
LOWGN	332702.70N/0971459.29W	Y	FB	TF	336.56	24.81			
RW36R (AER)	325244.30N/0970303.33W	N	-	-	-	-			
1120 MSL	-	-	-	VA	000.25	-			CG 500 FT/NM TO 5000.
HAZKL	330415.04N/0970311.58W	Y	FB	DF	-	-	AT/ABOVE 5000	AT/BELOW 240K	
LOWGN	332702.70N/0971459.29W	Y	FB	TF	336.56	24.81			
LOWGN	332702.70N/0971459.29W	Y	-	IF	-	-			LOWGN5.ADM
ADM VORTAC	341241.71N/0971005.62W	Y	FB	TF	005.09	45.75			
LOWGN	332702.70N/0971459.29W	Y	-	IF	-	-			LOWGN5.ROLLS
ADM VORTAC	341241.71N/0971005.62W	Y	FB	TF	005.09	45.75			
MRMAC	345028.82N/0980634.32W	Y	FB	TF	309.22	60.00			
ROLLS	354321.88N/0992814.51W	Y	FB	TF	308.69	85.20			

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LOWGN RNAV	FIVE	LOWGN5.LOWGN	FOUR	04/05/2012	15 NOV 2012

ARINC PACKET - 424-18 - SID

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KDFWK4DLOWGN54RW17C	010	0	VI			1743			18000			
SUSAP	KDFWK4DLOWGN54RW17C	020NAVYЕК4ЕА0Е	010CF	TTT K4		1500005715520049D							
SUSAP	KDFWK4DLOWGN54RW17C	030JGIRLK4ЕА0Е	010TF			10450030		+ 05000		240		-	
SUSAP	KDFWK4DLOWGN54RW17C	040CORTSK4ЕА0Е	010TF			08170055							
SUSAP	KDFWK4DLOWGN54RW17C	050BIGGDK4ЕА0Е	010TF			00580055							
SUSAP	KDFWK4DLOWGN54RW17C	060CMOREK4ЕА0Е	010TF			35410077							
SUSAP	KDFWK4DLOWGN54RW17C	070LOWGNK4ЕА0ЕЕ	010TF			31540355							
SUSAP	KDFWK4DLOWGN54RW17R	010	0	VI		1743				18000			
SUSAP	KDFWK4DLOWGN54RW17R	020NAVYЕК4ЕА0Е	010CF	TTT K4		1500005715300050D							
SUSAP	KDFWK4DLOWGN54RW17R	030JGIRLK4ЕА0Е	010TF			10450030		+ 05000		240		-	

DEPARTURE (DATA RECORD)

[illegible]

DEPARTURE (DATA RECORD)

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LOWGN RNAV	FIVE	LOWGN5.LOWGN	FOUR	04/05/2012	15 NOV 2012

SUSAP KDFWK4GRW31L	0093013131	N32532497W097034779+0100	+0148800577000054150R
SUSAP KDFWK4GRW31R	0090003093	N32534193W097000304+0500	+0128000508000053200IIRRA1
SUSAP KDFWK4GRW35C	0134013543	N32524396W097013422+0000	+0144400562000059150IIPKQ3
SUSAP KDFWK4GRW35L	0134013543	N32524402W097014829+0000	+0144700563000047200IIUWX1
SUSAP KDFWK4GRW36L	0134003543	N32524435W097031740+0200	+0150400582000055150IIBXN1
SUSAP KDFWK4GRW36R	0134003543	N32524430W097030333+0200	+0148300575000050200IIFJN1

DEPARTURE (DATA RECORD)

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ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
RW17C			010		VI		FB		174.3()			
RW17C	NAVYE		020		CF		FB	1.0	155.2()	004.9		
RW17C	JGIRL		030		TF		FB	1.0	104.5()	003.0	AA 05000	AB 240
RW17C	CORTS		040		TF		FB	1.0	081.7()	005.5		
RW17C	BIGGD		050		TF		FB	1.0	005.8()	005.5		
RW17C	CMORE		060		TF		FB	1.0	354.1()	007.7		
RW17C	LOWGN		070		TF		FB	1.0	315.4()	035.5		
RW17R			010		VI		FB		174.3()			
RW17R	NAVYE		020		CF		FB	1.0	153.0()	005.0		
RW17R	JGIRL		030		TF		FB	1.0	104.5()	003.0	AA 05000	AB 240
RW17R	CORTS		040		TF		FB	1.0	081.7()	005.5		
RW17R	BIGGD		050		TF		FB	1.0	005.8()	005.5		
RW17R	CMORE		060		TF		FB	1.0	354.1()	007.7		
RW17R	LOWGN		070		TF		FB	1.0	315.4()	035.5		
RW18L			010		VI		FB		174.3()			
RW18L	BPARK		020		CF		FB	1.0	190.5()	005.3		
RW18L	YAMEL		030		TF		FB	1.0	252.9()	003.1	AA 05000	AB 240
RW18L	FIRMN		040		TF		FB	1.0	268.2()	005.1		
RW18L	BINGM		050		TF		FB	1.0	332.1()	004.5		
RW18L	BEMMR		060		TF		FB	1.0	355.2()	009.6		
RW18L	LOWGN		070		TF		FB	1.0	356.2()	026.9		
RW18R			010		VI		FB		174.3()			
RW18R	BPARK		020		CF		FB	1.0	190.0()	004.8		
RW18R	YAMEL		030		TF		FB	1.0	252.9()	003.1	AA 05000	AB 240
RW18R	FIRMN		040		TF		FB	1.0	268.2()	005.1		
RW18R	BINGM		050		TF		FB	1.0	332.1()	004.5		
RW18R	BEMMR		060		TF		FB	1.0	355.2()	009.6		
RW18R	LOWGN		070		TF		FB	1.0	356.2()	026.9		
RW31L			010		VM		FB		313.1()			
RW31L	LOWGN		020		DF		FB	1.0				
RW31R			010		VM		FB		309.3()			
RW31R	LOWGN		020		DF		FB	1.0				
RW35C			010		VA		FB		354.3()		AA 01120	
RW35C	CUZEN		020		DF		FB	1.0			AA 05000	AB 240
RW35C	FLAGZ		030		TF		FB	1.0	002.2()	005.2		
RW35C	LOWGN		040		TF		FB	1.0	319.2()	021.0		
RW35L			010		VA		FB		354.3()		AA 01120	
RW35L	CUZEN		020		DF		FB	1.0			AA 05000	AB 240
RW35L	FLAGZ		030		TF		FB	1.0	002.2()	005.2		
RW35L	LOWGN		040		TF		FB	1.0	319.2()	021.0		
RW36B			010		VA		FB		354.3()		AA 01120	
RW36B	HAZKL		020		DF		FB	1.0			AA 05000	AB 240

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LOWGN RNAV	FIVE	LOWGN5.LOWGN	FOUR	04/05/2012	15 NOV 2012

RW36B	LOWGN	030	TF	FB	1.0	330.6()	024.8
ADM	LOWGN	010	IF	FB			
ADM	ADM	020	TF	FB	1.0	359.1()	045.8
ROLLS	LOWGN	010	IF	FB			
ROLLS	ADM	020	TF	FB	1.0	359.1()	045.8
ROLLS	MRMAC	030	TF	FB	1.0	303.2()	060.0
ROLLS	ROLLS	040	TF	FB	1.0	302.7()	085.2

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ADM	N341241.71	W0971005.62	N3412.695	W09710.094
	TTT	N325208.98	W0970225.81	N3252.150	W09702.430
	BEMMR	N330006.19	W0971613.39	N3300.103	W09716.223
	BIGGD	N325131.59	W0964833.10	N3251.527	W09648.552
	BINGM	N325027.25	W0971627.44	N3250.454	W09716.457
	BPARK	N324631.76	W0970451.51	N3246.529	W09704.859
	CMORE	N325916.66	W0964832.49	N3259.278	W09648.542
	CORTS	N324607.65	W0964953.59	N3246.128	W09649.893
	CUZEN	N330439.55	W0970130.12	N3304.659	W09701.502
	FIRMN	N324617.77	W0971428.77	N3246.296	W09714.480
	FLAGZ	N330945.88	W0970037.41	N3309.765	W09700.624
	HAZKL	N330415.04	W0970311.58	N3304.251	W09703.193
	JGIRL	N324554.36	W0965621.63	N3245.906	W09656.361
	LOWGN	N332702.70	W0971459.29	N3327.045	W09714.988
	MRMAC	N345028.82	W0980634.32	N3450.480	W09806.572
	NAVYE	N324657.75	W0965942.05	N3246.963	W09659.701
	ROLLS	N354321.88	W0992814.51	N3543.365	W09928.242
	YAMEL	N324555.70	W0970828.05	N3245.928	W09708.468
	RW17C	N325456.55	W0970133.49	N3254.943	W09701.558
	RW17R	N325456.60	W0970147.58	N3254.943	W09701.793
	RW18L	N325456.88	W0970302.65	N3254.948	W09703.044
	RW18R	N325456.93	W0970316.71	N3254.949	W09703.279
	RW31L	N325324.97	W0970347.79	N3253.416	W09703.797
	RW31R	N325341.93	W0970003.04	N3253.699	W09700.051
	RW35C	N325243.96	W0970134.22	N3252.733	W09701.570
	RW35L	N325244.02	W0970148.29	N3252.734	W09701.805
	RW36L	N325244.35	W0970317.40	N3252.739	W09703.290
	RW36R	N325244.30	W0970303.33	N3252.738	W09703.056

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17C	00562	58
	RW17R	00567	54
	RW18L	00602	55
	RW18R	00607	59
	RW31L	00577	54

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LOWGN RNAV	FIVE	LOWGN5.LOWGN	FOUR	04/05/2012	15 NOV 2012

RW31R	00508	53
RW35C	00562	59
RW35L	00563	47
RW36L	00582	55
RW36R	00575	50