

Five ARSR views of AAL77 from 12:55:06.2Z thru 12:57:56.9Z

This file created July 8, 2009. Data compiled from the following FAA FOIA files as found on <http://aal77.com/...>

"1 ZID 54 QBE Beacon Data.pdf", "1 ZID 55 QBE2 Primary Targets.pdf", and "1 ZID 42 NTAP.pdf"

QRI showed no primary target on AAL77 during period analyzed. Squawk was 3743 until Line 43. Mode C of all transponder replies was 35,000 ft.

The point of this analysis is to exemplify that there is considerable radar data that is NOT utilized.

Note: Radar data from 3 other ARSRs within range (PIT, IND, & QRM) has not been found in the aal77.com FOIA data.

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Line No.	Time (UTC)	ARSR	Bearing from ARSR	Range from ARSR	Beacon Target?	Radar Reinforced or Primary Target?	Target available on ZID Displays?	Comments
1	12:55:06.2	QHY	275.888	50.625	Y	N	Y	On ZID display at X=362.6875, Y=216.1875
2	12:55:06.4	CLE	195.820	157.000	Y	Y	N	Note: CLE identifier is also known as QDB.
3	12:55:07.4	QRI	6.855	112.875	Y	-N-	N	
4	12:55:09.5	QWO	147.304	76.125	Y	Y	N	
5	12:55:10.0	QBE	298.388	165.125	Y	Y	N	
6	12:55:16.5	CLE	196.083	157.875	Y	Y	N	
7	12:55:17.4	QRI	6.328	112.125	Y	-N-	N	
8	12:55:18.3	QHY	274.833	51.875	Y	N	Y	On ZID display at X=361.3750, Y=215.3750
9	12:55:19.6	QWO	148.183	76.125	Y	Y	N	
10	12:55:21.9	QBE	297.861	165.875	Y	Y	N	
11	12:55:26.6	CLE	196.611	158.875	Y	Y	N	
12	12:55:27.4	QRI	5.800	111.250	Y	-N-	N	
13	12:55:29.7	QWO	149.062	76.250	Y	Y	N	
14	12:55:30.2	QHY	273.779	53.000	Y	N	Y	On ZID display at X=360.1875, Y=214.4375
15	12:55:33.9	QBE	297.509	166.625	Y	Y	N	
16	12:55:36.8	CLE	196.699	160.000	Y	N	N	
17	12:55:37.5	QRI	5.449	110.375	Y	-N-	N	
18	12:55:39.9	QWO	150.380	76.625	Y	Y	N	
19	12:55:42.2	QHY	272.460	54.125	Y	N	Y	On ZID display at X=359.0625, Y=213.2500
20	12:55:45.8	QBE	296.982	167.125	Y	Y	N	
21	12:55:46.9	CLE	197.050	161.250	Y	Y	N	
22	12:55:47.5	QRI	5.009	109.250	Y	-N-	N	
23	12:55:50.0	QWO	151.171	77.000	Y	Y	N	
24	12:55:54.2	QHY	271.142	55.125	Y	N	Y	On ZID display at X=358.0625, Y=212.000
25	12:55:57.0	CLE	197.138	162.500	Y	Y	N	
26	12:55:57.5	QRI	4.570	108.125	Y	-N-	N	
27	12:55:57.7	QBE	296.455	167.500	Y	Y	N	
28	12:56:00.1	QWO	151.962	77.625	Y	Y	N	
29	12:56:06.2	QHY	269.736	56.000	Y	N	Y	On ZID display at X=357.1875, Y=210.6875
30	12:56:07.2	CLE	197.666	163.750	Y	N	N	
31	12:56:07.6	QRI	4.482	106.875	Y	-N-	N	
32	12:56:09.6	QBE	295.927	167.625	Y	Y	N	
33	12:56:10.2	QWO	152.841	78.375	Y	Y	N	
34	12:56:17.2	CLE	197.402	165.125	Y	Y	N	
35	12:56:17.6	QRI	4.042	105.625	Y	-N-	N	
36	12:56:18.2	QHY	268.330	56.625	Y	N	Y	On ZID display at X=356.6250, Y=209.2500 (last)
37	12:56:20.4	QWO	153.632	79.250	Y	Y	N	
38	12:56:21.5	QBE	295.488	167.625	Y	Y	N	
39	12:56:27.4	CLE	197.753	166.375	N	Y*	N	*=S1 (Search Radar)
40	12:56:27.6	QRI	3.867	104.250	Y	-N-	N	
41	12:56:30.2	QHY	266.660	57.250	Y	N	N	This target not on ZID display due to sort box assignments
42	12:56:30.5	QWO	154.335	80.375	Y	Y	N	
43	12:56:33.4	QBE	294.785	167.375	Y*	Y	N	*=Transponder code changed to 6743.
Note: The COMDIG radar data terminates after 3 to 4 radar rotations when it no longer finds the 3743 beacon return.								
44	12:56:37.5	CLE	197.314	167.875	N	Y*	N	*=S1
45	12:56:40.6	QWO	154.951	81.500	N	Y*	N	*=S1
46	12:56:45.4	QBE	294.345	167.000	N	Y*	N	*=S1; Also on "1 ZID 55 QBE Primary Targets.pdf"
47	12:56:47.6	CLE	196.875	169.250	N	Y*	N	*=S1
48	12:56:50.7	QWO	155.566	82.625	N	Y*	N	*=S1
49	12:56:57.4	QBE	293.906	166.375	N	Y*	N	*=S1; Also on "1 ZID 55 QBE Primary Targets.pdf"
50	12:56:57.7	CLE	196.962	170.625	N	Y*	N	*=S1
51	12:57:00.8	QWO	155.830	84.000	N	Y*	N	*=S1
52	12:57:09.3	QBE	293.027	165.625	N	Y*	N	*=S1; Also on "1 ZID 55 QBE Primary Targets.pdf"
Above COMDIG radar data was from "1 ZID 54 QBE Beacon Data.pdf". COMDIG radar data from here on is from "1 ZID 55 QBE2 Primary Targets.pdf"								
53	12:57:21.2	QBE	292.675	164.750	N	Y*	N	*=S1
54	12:57:33.0	QBE	292.324	163.750	N	Y*	N	*=S1
55	12:57:45.2	QBE	291.884	162.500	N	Y*	N	*=S1
56	12:57:56.9	QBE	291.621	161.250	N	Y*	N	*=S1

There are 44 more primary (search radar) targets from QBE shown on "1 ZID 55 QBE2 Primary Targets.pdf"