

Facility Name								Fac ID		Date		
VOR REFERENCE DATA & ERROR CURVE												
		Monitor #1			Monitor #2			System Average		Algebraic Update		
GND CHK	1ST	2ND	3RD	1ST	2ND	3RD	AVG	REF	BEFORE	AFTER	NEW	
ANTENNA	GND CHK	GND CHK	GND CHK	GND CHK	GND CHK	GND CHK	GND CHK	AZIMUTH	GND CHK	GND CHK	REF	
EX: 22.5	1.12	1.10	1.08	1.05	1.15	1.10	1.10	23.6°	1.20	0.70	23.1°	
0							0.00	0.00			0.00	
22.5							0.00	22.50			22.50	
45							0.00	45.00			45.00	
67.5							0.00	67.50			67.50	
90							0.00	90.00			90.00	
112.5							0.00	112.50			112.50	
135							0.00	135.00			135.00	
157.5							0.00	157.50			157.50	
180							0.00	180.00			180.00	
202.5							0.00	202.50			202.50	
225							0.00	225.00			225.00	
247.5							0.00	247.50			247.50	
270							0.00	270.00			270.00	
292.5							0.00	292.50			292.50	
315							0.00	315.00			315.00	
337.5							0.00	337.50			337.50	
VOR ERROR CURVE GRAPH												
 ◆ Original ◆ Revised												

SW Form 6820-001 (12/01) Instructions

A new reference data and error curve (SW Form 6820-001) is established by the following process:

Run 3 ground checks on each of the VOR monitors.

- 1) The data for monitor #1 is obtained while monitor #1 is in control of the VOR.
- 2) The data for monitor #2 is obtained while monitor #2 is in control of the VOR.
- 3) The data for the six ground checks should be entered into the appropriate columns of the form.

Using the software version of the form, under the System Average area the column "AVG GND CHK" data is automatically calculated by the spreadsheet to indicate the average error of all six ground checks.

The "REF AZIMUTH" column data is automatically calculated by the spreadsheet to indicate the average azimuth measured of all six ground checks.

The "REF AZIMUTH" column calculated values are also the actual J parameter values to be entered into both VOR monitor alarm tolerance screens J;2V1 and J;2V2 line items 13 thru 28. These are the values that the system utilizes when performing the 15 minute automatic ground check function.

The reference data and error curve may be revised via the algebraic update method if the following conditions are true:

Facility work falls under the 6820.7 handbook paragraph 602 "Activities That Do Not Require A Confirming Flight Inspection."

The work causes permanent changes and tolerances relative to the existing reference ground check error curve are in danger of being exceeded.

- 1) Perform ground check immediately prior to the work.
- 2) Enter this data in the appropriate column labeled "BEFORE GND CHK."
- 3) Perform ground check immediately after the work.
- 4) Enter this data in the appropriate column labeled "AFTER GND CHK."

Spreadsheet will automatically calculate the new reference data "NEW REF."

Note: Electronic copies of the form with imbedded formulas can be requested from SMO Technical Support Units.

Facility Name: Woodring VOR Enid, Oklahoma								Fac ID ODG	Date 09/24/1992		
VOR REFERENCE DATA & ERROR CURVE											
	Monitor #1			Monitor #2			System Average		Algebraic Update		
GND CHK	1ST	2ND	3RD	1ST	2ND	3RD	AVG	REF	BEFORE	AFTER	NEW
ANTENNA	GND CHK	GND CHK	GND CHK	GND CHK	GND CHK	GND CHK	GND CHK	AZIMUTH	GND CHK	GND CHK	REF
EX: 22.5	1.12	1.10	1.08	1.05	1.15	1.10	1.10	23.6°	1.20	0.70	23.1°
0	2.35	2.41	2.37	2.35	2.41	2.37	2.38	2.38	2.40	2.12	2.10
22.5	2.03	1.99	2.01	2.03	1.99	2.01	2.01	24.51	2.37	1.98	24.12
45	2.61	2.65	2.60	2.61	2.65	2.60	2.62	47.62	2.30	2.17	47.49
67.5	2.50	2.47	2.48	2.50	2.47	2.48	2.48	69.98	2.30	2.39	70.07
90	2.32	2.33	2.34	2.32	2.33	2.34	2.33	92.33	1.96	2.05	92.42
112.5	2.22	2.24	2.30	2.22	2.24	2.24	2.22	114.7	1.54	1.52	114.73
135	2.14	2.16	2.20	2.14	2.16	2.16	2.14	137.17	2.09	2.08	137.16
157.5	2.36	2.34	2.35	2.36	2.34	2.34	2.35	159.79	2.54	2.39	159.70
180	2.39	2.38	2.41	2.39	2.38	2.41	2.39	182.39	2.53	2.24	182.10
202.5	2.38	2.36	2.37	2.38	2.36	2.37	2.37	204.87	2.03	1.62	204.46
225	1.85	1.84	1.84	1.85	1.84	1.84	1.84	226.84	1.81	1.59	226.62
247.5	1.93	1.92	1.95	1.93	1.92	1.95	1.93	249.43	1.89	1.68	249.22
270	2.15	2.13	2.11	2.15	2.13	2.11	2.13	272.13	1.72	1.58	271.99
292.5	2.17	2.17	2.21	2.17	2.17	2.21	2.18	294.68	1.70	1.61	294.59
315	2.40	2.38	2.39	2.40	2.38	2.39	2.39	317.39	2.21	2.03	317.21
337.5	2.31	2.28	2.29	2.31	2.28	2.29	2.29	339.79	2.66	2.22	339.35
VOR ERROR CURVE GRAPH											