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SIMULTANEOUS DUAL POLARIZATION RADAR SYSTEMS OFFERED BY EEC ARE COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS: US 6,859,163, US 6,803,875, VARIOUS ADDITIONAL DOMESTIC AND INTERNATIONAL PATENTS HAVE BEEN APPLIED FOR.

FEDERAL REGULATION 2.1049, OCCUPIED BANDWIDTH FOR DWSR-2001X METEOROLOGICAL RADAR

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PULSE WIDTH = 1.0 MICROSECONDS, PRF 1180

FREQUENCY 9350 MHz

MAJOR LOBE WIDTH = 1.9 MHz  
MINOR LOBE WIDTH = .9 MHz

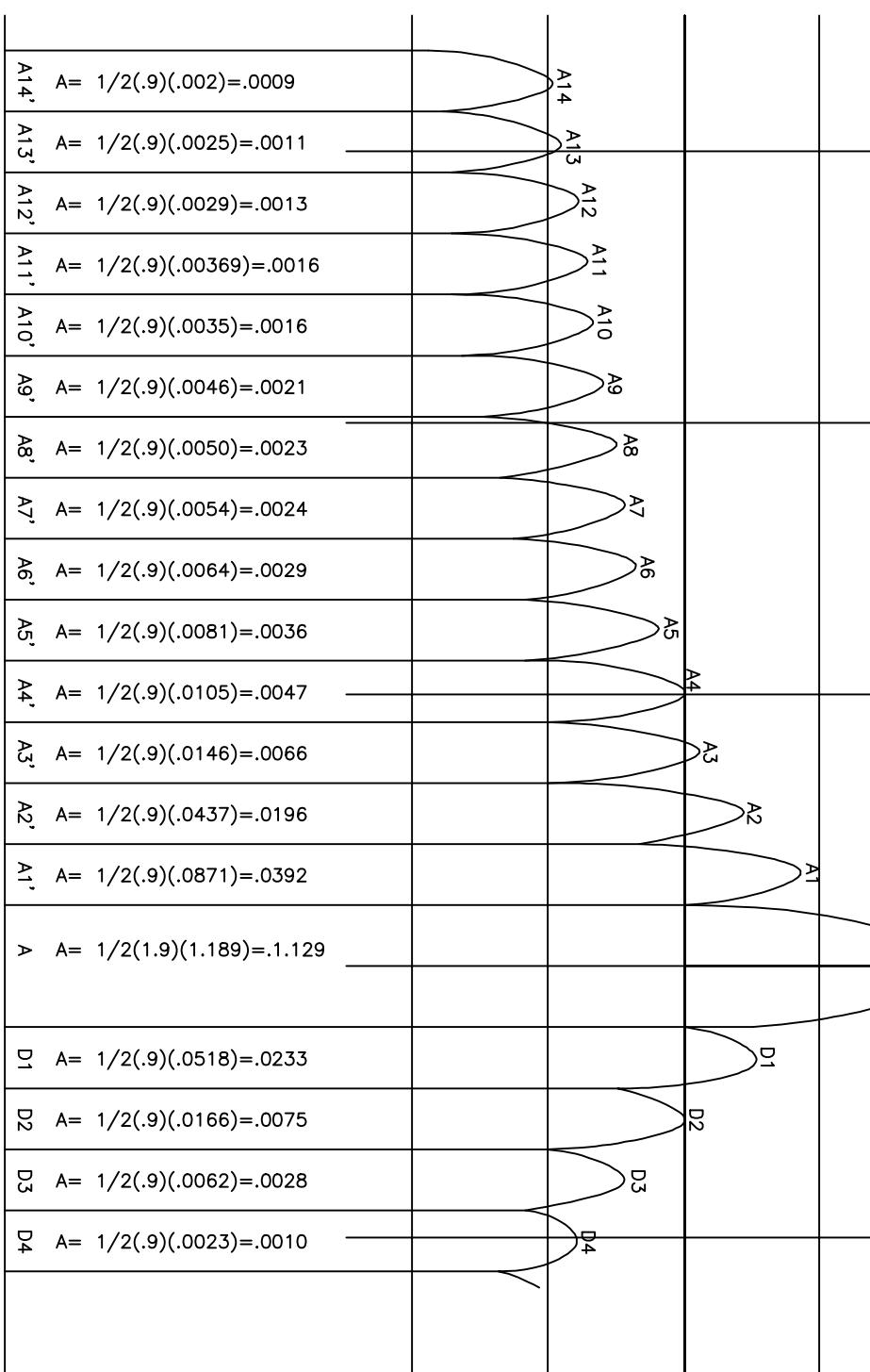
$$\text{LOBE AREA} = 1/2 \text{ LOBE WIDTH} \left( \frac{1}{\log_{10} \frac{4\pi}{\text{LOB}}} \right)$$

A11 THROUGH A7' = 2.829

MEAN RADIATED POWER =  $2.829 \times .99 = 2.8$

A10 THROUGH A6' = 2.828  
OCCUPIED BANDWIDTH =  $A2 - A9 = 25.46$  MHz

EMISSION DESIGNATOR, 11M25PON



A	1	2	3	4	5	6	7	8	9	10	11	12	13	14
GL	-10.6000	-13.6000	-18.3500	-19.7900	-20.9100	-21.9400	-22.7000	-22.9700	-23.4000	-24.5500	-24.4700	-25.3100	-25.9500	-26.8900
D	1	2	3	4										
GH	-12.8600	-17.8100	-22.0700	-26.3900										

FEDERAL REGULATION OCCUPIED BANDWIDTH

SIZE	CODE IDENT NO.	DRAWING NO.
B	50187	SK-2074

POSTED BY	APPR./DATE	SCALE	NOTE	08E0H09	SHEET	1 OF 1
EEC-B2B						