

EXHIBIT I

LOCATION

Santa Monica, California
(Lear Astronics Corp
Manufacturing Facility)

Continental United States

GEOGRAPHIC LOCATION

34°01'N 118°27'W

Continental United States

EXHIBIT II

The SVS program is a technology demonstration of 94 GHz radar capabilities to provide runway image on Head Up Display (HUD) to support the pilot during take off, landing and taxi in low visibility due to fog, rain and snow. The system utilizes 94 GHz 0.5W FMCW Radar to scan the aircraft and to provide high resolution real world (elevation versus azimuth) runway. This image will be presented on the HUD display on real time. The radar parameters are:

Power	-	0.5W
Bandwidth	-	200 MHz
Scan Rate	-	5 Hz

The contract number is F33615-90-C-3602 and the government agency is
Department of the Air Force
Flight Dynamic Laboratory
Wright Patterson Air Force Base

Lear mmW Radar Transmitter Specification

→ Center Frequency	-	94.0 GHz
→ Modulation	-	Linear FM
→ Bandwidth	-	CW, 200 MHz
→ Transmitted Power	-	250 mW typ., 500 mW max.
→ Sweep Repetition	-	1.8 mS
→ Settling Time	-	< 200 microseconds
→ Linearity	-	.01 %
→ Linearizer References	-	177.6 kHz
→ FM Noise	-	-55 dBc/Hz at 10 kHz in 1 Hz BW -78 dBc/Hz at 100 kHz in 1 Hz BW -105 dBc/Hz at 1 mHz in 1 Hz BW
→ AM Noise	-	< -140 dBc at 10 kHz to 1 mHz
→ VSWR	-	1.5:1 max
→ DC Power	-	+28V/3.5A [surged]/2.5A [cont]
	-	+15V/1.5A [surged]/2.0A [cont]
	-	+5V/1.0A [cont]