



Survey Type EMI Survey for St. Jude Medical / Abbott SCS Model # 3660

Location San Antonio, TX

ATTN: Safety Supervisor

Project	EMI Survey - Axle Assembly Area	Date	1/17/2020
Customer	Auto Manufacturer	Time	9:00 AM
Attention	Safety Supervisor	Phone	
Location	1 Safety Zone	Phone	
Travel	included	Email	

Site Description	Automotive Production Plant *NOTE - DFIL (Distance to Field Intensity Limit) range at which field hits device spec			
Testing	E-Field (Electric Field)	AC 60 Hz Magnetic Field	DC Magnetic Field	RF (Radio Frequency)
Units	E-Field V/m (Volts / meter)	AC Magnetic Field mG (milliGauss)	DC Magnetic G (Gauss)	RF (Volts / meter)

AREA **AC 60 Hz Magnetic Field (mG or G)** **AC E-Field** **DC Mag** **DFIL** **RF in Volts per Meter (V/m)**

PAGE 1 of 4

Test Area 1 by Restroom	Power Distribution Panel (PDP) 80 mG	0 - 1 V / m	1 G	N/A	1.1 V / m
Test Area 2	Control Panel for Battery Delivery 140 mG	0 - 1 V / m	0.8 G	N/A	2 V / m
Test Area 3	Microwave Ovens 25 mG	0 - 1 V / m	0.7 G	3 "	30 V / m NEA right beside door seal
Test Area 4	Walkie-Talkie Chargers - NEA 0.5 mG (ambient)	0 - 1 V / m	40.7 G microphone	3"	5 V / m keyed up
Test Area 5	Oil Fill Equipment	0 - 1 V / m	0.35 G	N/A	1.2 V / m
Test Area 6 Pitch 1	Tensor Tool 2 G +	0 - 2 V / m	35 G	6"	1 V / m
Test Area 7	Laser Scanner normal ambient (0.5 - 10 mG)	0 - 1 V / m	0.6 G	N/A	1.1 V / m
Test Area 8 Pitch 2	Tensor Controller / Toolcard 10 mG	0 - 2 V / m	0.5 G	N/A	2 V / m
Test Area 9 Pitch 3	Cooling Fan (NEA - Not Easily Accessible) 230 mG but 7' high	0 - 2 V / m	0.75 G	3"	0.6 V / m
Test Area 10	Charging Station (NEA - 6' high on cabinet) 5 - 10 mG	2000 V / m	0.6 G	N/A	4 V / m

LIMITS * **377 mG = 0.377 Gauss** **6000 V/m 500 Gauss** **10 V/m**

SUMMARY Tensor Tools exhibit relatively high AC magnetic field (well above spec) but only at close range and while energized. Potential exposure would depend on exact placement of the device on the person's body and body position. Some other Sources of Interest (SOI) found, but were placed in such a manner that it is unlikely that interference with an SCS would occur. (such as a cooling fan placed above head level)

Consultant Joel-Anthony Gray **Signed** JAG