Client:	GE MDS LLC	Job Number:	J76926
Model:	Mercury 3650	T-Log Number:	T76941
		Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	FCC Part 90Z	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Evaluation 9/30/2009

Test Engineer Mark Briggs

General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Minimum separation distance for 18dBi ant. (in cm):	21.2	(Note - manual states 22cm required)
Minimum separation distance for 13dBi ant. (in cm):	20	

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Client:	GE MDS LLC	Job Number:	J76926
Model:	Mercury 3650	T-Log Number:	T76941
		Account Manager:	Susan Pelzl
Contact:	Dennis McCarthy		
Standard:	FCC Part 90Z	Class:	N/A

Use: General Antenna: Panel 18dBi less 3dB cable loss

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
3652 - 3673	22.5	177.8	3	18	19.5	5623.41	1.119	1.000

For the cases where S > the MPE Limit

Freq. MHz	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2	Distance where S <= MPE Limit cm
3652 - 3673	1.119	1.000	**21.2**

Use: General Antenna: Omni 13dBi less 3dB cable loss

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
3652 - 3673	22.5	177.8	3	13	19.5	1778.28	0.354	1.000