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Project 10366-10

Prepared for:  
Hubbell Building Automation, Inc.  
9601 Dessau Road, Suite 100  
Austin, Texas 78754

By

Professional Testing (EMI), Inc.  
1601 N. A.W. Grimes Blvd., Suite B  
Round Rock, Texas 78665

August 12, 2010

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**MPE / RF Exposure Report**  
**Hubbell Building Automation, Inc.**  
**WIHUBB**

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(3) The significance of this report is dependent on the representative character of the test sample submitted for evaluation and the results apply only in reference to the sample tested. The manufacturer must continuously implement the changes shown herein to attain and maintain the required degree of compliance.



Applicant: Hubbell Building Automation, Inc.  
Applicant's Address: 9601 Dessau Road, Suite 100  
Austin, TX 78754  
FCC ID: YH9WIHUBB  
IC Number: 9044AWIHUBB  
Project Number: 10366-10  
Test Dates: August 11 - 12, 2010

I, Jason Anderson, for Professional Testing (EMI), Inc., being familiar with the FCC rules and test procedures have reviewed the test setup, measured data and this report. I believe them to be true and accurate.

A handwritten signature in black ink, appearing to be "JA" followed by a flourish.

Jason Anderson  
Director of Testing Services

This report has been reviewed and accepted by Hubbell Building Automation, Inc.. The undersigned is responsible for ensuring that this device will continue to comply with the FCC and IC rules.

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## **1.0 MPE Prediction**

Prediction of MPE limit at a given distance was made by using equation from page 18 of OET Bulletin 65, Edition 97-01, and CFR 47, 1.1310.

### **1.1 Evaluation Procedure**

$$S = PG / 4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

### **1.2 Evaluation Criteria**

MPE limit for uncontrolled exposure at prediction frequency (mW/cm<sup>2</sup>):  $f / 1500$

**f = frequency in MHz**

$$915 / 1500 = .61 \text{ mW/cm}^2$$

### MPE Prediction Calculation

PROJECT #	DATE	RULE	DISTANCE	ANTENNA	RBW	VBW	DETECTOR
10366-10	August 12, 2010	15.247	N/A	N/A	N/A	N/A	N/A

### Calculations

$$S = PG / 4\pi R^2$$

Where: S = power density

P= power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

### MPE WIHUBB

Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Prediction Distance (cm)	Max Antenna Gain (dBi)	Max Antenna Gain (numeric)	Power Density at 20.0 cm (mW/cm <sup>2</sup> )
902.74	19.7	93.3	20	5.0	3.16	.05868

$$.05868 < .61 \text{ mW/cm}^2$$

**Result = Pass**

COMMENT	Center frequency of band utilized to calculate MPE Limit.
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