



EMC Testing/Engineering Services



NVLAP ACCREDITED
NARTE Certified Engineer
Professional Engineer

ELITE Electronic Engineering
TCB Services
1516 Centre Circle
Downers Grove, IL 60515-1082

August 28, 2001

Re: Application for Certification of Gentex Corporation Transmitter under 47CFR 15.231.
FCC ID: **NZLSTDHL3**

Gentlemen:

On behalf of the applicant, Gentex Corporation, please find attached the submittal materials for certification of the Universal Garage Door Opener in a Standard Mirror, Model NZLSTDHL3. This unit is capable of learning the current garage door transmit frequencies from 288MHz through 420MHz except in the forbidden frequency regions.

Pursuant to 47CFR 0.459, Gentex Corporation requests that these listed exhibits be held confidential.

Circuit Block Diagrams	page 2 of Exhibit B
Theory/Description of Operation, Schematics	page 3 of Exhibit B pages 4 & 5 of Exhibit B
Bill of Material, Parts List	page 1,2 of Misc. Exhibits

The complete List of the Exhibits in this submittal package appears on Page 2 of this cover letter.

A copy of a "Power of Attorney" is included to demonstrate that AHD has been authorized to provide the service of preparing this application.

Your prompt consideration of this application for product certification will be greatly appreciated. Should you have any questions regarding the content of this report, kindly contact me.

Sincerely,

Ted Chaffee,
Technical Lab Manager
Narte Certified Engineer, #EMC-002025-NE
tel/fax: 616.424.7014
email: tchaffee@ahde.com, or ahd@locallink.net

Table of Contents

Cover Letter / Table of Contents		Total Pages	2
EXHIBIT A:			
ID Label / Location [2.925,2.926,2.1033(b2,7),15.19(a3)]		Total Pages	2
EXHIBIT B:			
Description of Product [2.1033(b6)]		Total Pages	1
Circuit Block Diagram [2.1033(b5)]		Total Pages	1
Description of Operation [2.1033(b4)]		Total Pages	2
Schematics [2.1033(b5)]	EXB_schematic.pdf	Total Pages	5
EXHIBIT C:			
Product photos	ten photos	Total Pages	11
:	Interior & Printed Circuit Boards [2.1033(b7)]	Seven photos	
	EXC_2PCBtop.jpg, EXC_2PCBbtm.jpg,		
	EXC_MainPCBtop.jpg, EXC_MainPCBbtm.jpg,		
	EXC_HL3PCBtop.jpg, EXC_HL3PCBbtm.jpg, EXC_Mirrorin.jpg		
	Exterior views [2.1033(b7)]	Three photos	
	EXC_Mirrorfrnt.jpg, EXC_Mirrorrear.jpg, EXC_Mirrorbtm.jpg		
EXHIBIT D:			
User's Manual	EXD_OEMUserManual.doc	Total Pages	5
EXHIBIT E:			
Setup photos [2.1033(b8)]	Four photos	Total Pages	5
	EXE_pretest.jpg, EXE_side.jpg, EXE_end.jpg, EXE_flat.jpg		
Report of Measurements [2.1033(b6)]		Total Pages	33
Table of Contents	Page 2		
Manufacturer/Applicant [2.1033(b1)]	Page 4		
Measurement/Test Facility & Equipment	Page 4		
Configuration/Setup [2.1033(b8)]	Page 5		
Test Standards / Methods Used [2.1033(b6)]	Page 7		
Test Methodology [2.1033(b6)]	Page 7		
Test Data [2.1033(b6)]			
	Summary of Results	Page 6	
	Level vs Supply Voltage [15.31(e)]	Page 13	
	Occupied Bandwidth	Page 14	
	Radiated Field Strength [15.231(b)]	Page 16	
Misc. EXHIBIT:			
RF Exposure Information [2.1093(c)]		Total Pages	1
Parts List/Tune-up Information [2.1033(b5)]		Total Pages	12
	EXmisc_Layout.pdf, EXmisc_MainBOM.pdf, EXmisc_HL3BOM.pdf		