



NVLAP ACCREDITED
NARTE Certified Engineer
Professional Engineer

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

April 20, 2002

Re: Application for Certification of Gentex Corporation Transmitter under 47CFR 15.231.
FCC ID: **NZLLCTHL3**

Gentlemen:

On behalf of the applicant, Gentex Corporation, please find attached the submittal materials for certification of the Universal Garage Door Opener in a "super" Mirror with Compass, Temperature displays, and high intensity LED lights. The model is NZLLCTHL3. 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,	page 3 of Exhibit B
Schematics	pages 5 through 12 of Exhibit B

The complete List of the Exhibits in this submittal package appears on Page 2 of this cover letter. The enclosed CD contains the electronic copies of the printed materials.

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	8
EXHIBIT C:		
Product photos	eight photos	Total Pages 9
: Interior & Printed Circuit Boards [2.1033(b7)]	Five photos	
EXC_3PCBtop.jpg, EXC_3PCBbtm.jpg,		
EXC_HL3PCBtop.jpg, EXC_HL3PCBbtm.jpg, EXC_InMirror.jpg		
Exterior views [2.1033(b7)]	Four photos	
EXC_Mirrorfrnt.jpg, EXC_Mirrorrear.jpg, EXC_Mirrorbtm.jpg		
EXHIBIT D:		
User's Manual	EXD_OEMUserManual.doc	Total Pages 6
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 28
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 8	
Test Methodology [2.1033(b6)]	Page 8	
Test Data [2.1033(b6)]		
Summary of Results	Page 6	
Level vs Supply Voltage [15.31(e)]	Page 14	
Occupied Bandwidth	Page 15	
Radiated Field Strength [15.231(b)]	Page 17	
Misc. EXHIBIT:		
RF Exposure Information [2.1093(c)]	Total Pages	1
Tune-up Information [2.1033(b5)]	Total Pages	1