

**POTENTIAL INTERFERENCE FROM
BROADBAND OVER POWER LINE (BPL)
SYSTEMS TO FEDERAL GOVERNMENT
RADIOCOMMUNICATION SYSTEMS
AT 1.7 - 80 MHz**

Phase 2 Study

VOLUME II



technical report

NTIA Report 08-450

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October 2007

VOLUME II
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GLOSSARY

AWG	American Wire Gauge
BPL	Broadband over Power Line(s)
BW	Bandwidth
CISPR	International Special Committee on Radio Interference
CONUS	Continental United States
COTHEN	Customs Over The Horizon Enforcement Network
dB	Decibel
dBi	Decibel referenced to an isotropic radiator
dBm	Decibel referenced to 1 milliwatt
dB μ V	Decibel referenced to 1 microvolt
dBW	Decibels referenced to 1 Watt
E	Electric Field Strength
EMC	Electromagnetic Compatibility
EUT	Equipment Under Test
FCC	Federal Communications Commission
G	Gain
GHz	Gigahertz
H	Magnetic Field Strength
HF	High Frequency
Hz	Hertz
I	Interference Power
ICAO	International Civil Aviation Organization
IRAC	Interdepartment Radio Advisory Committee
ITM	Irregular Terrain Model
ITS	Institute for Telecommunication Sciences
ITU	International Telecommunication Union
ITU-R	International Telecommunication Union Radiocommunication Sector
kHz	Kilohertz
km	Kilometer
LV	Low Voltage
m	Meter
MHz	Megahertz
mm	millimeter
mS	Siemens/meter
ms	Millisecond
MV	Medium Voltage
N	Noise Power
NEC	Numerical Electromagnetic Code
NOI	Notice of Inquiry
NPRM	Notice of Proposed Rulemaking
NTIA	National Telecommunications and Information Administration
OR	Off-Route

OTH	Over the Horizon
PFD	Power Flux Density
PLC	Power Line Communications
PLT	Power Line Telecommunications
R	Route
RF	Radio Frequency
RMS	Root Mean Square
RSMS	Radio Spectrum Measurement System
S	Signal Power
SNR	Signal-to-Noise Ratio
SSB	Single Sideband
SSN	Smoothed Sunspot Number
URD	Underground Residential Distribution
US&P	United States and Possessions
UTC	Universal Coordinated Time
VHF	Very High Frequency
VLA	Very Large Array
VOA	Voice of America
VOACAP	Voice of America Coverage Analysis Program
W	Watt
μA	Microampere
μV	Microvolt