



Bell Mobility Wireless Network Communications

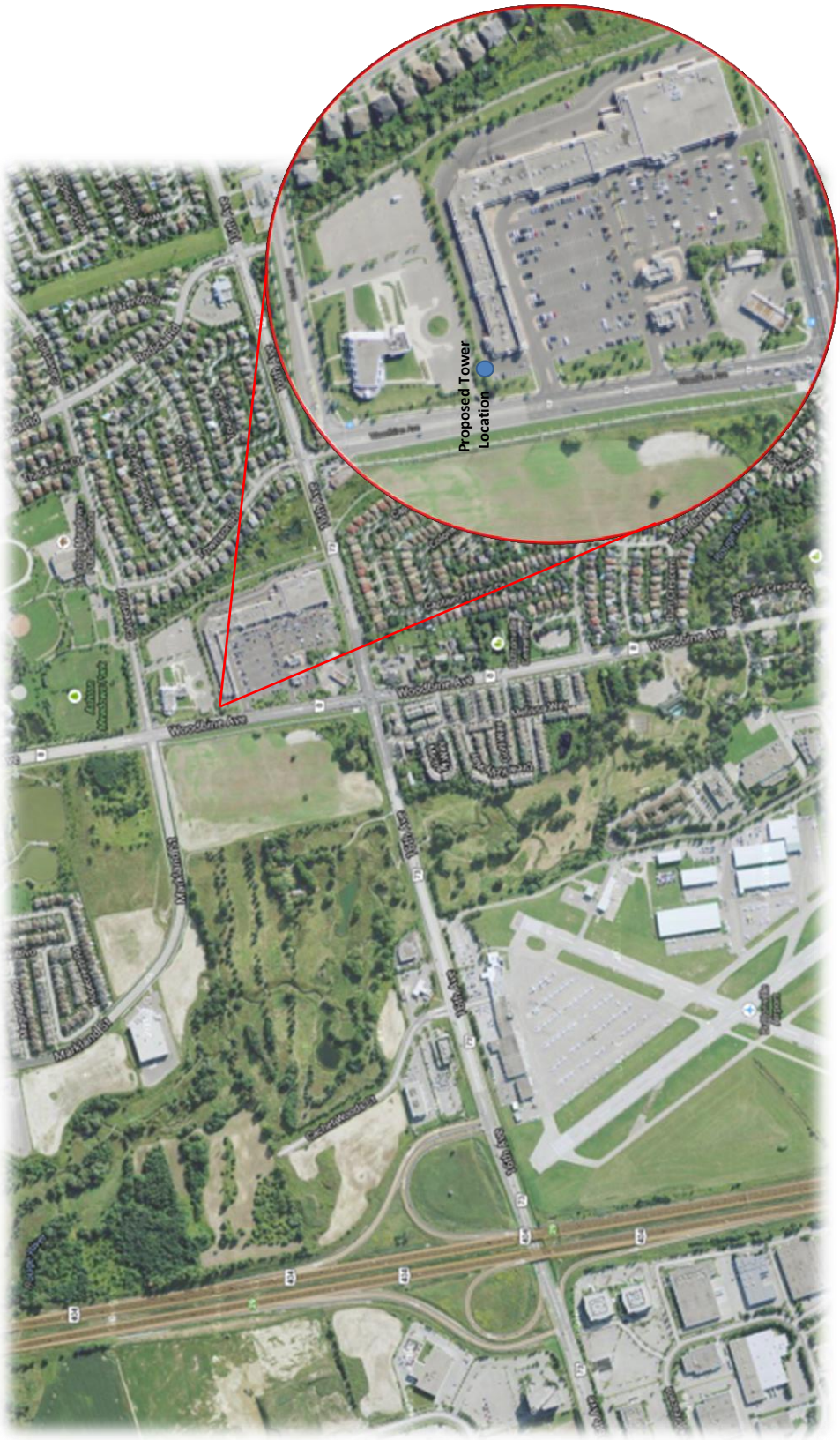
Prepared by FONTUR International

Telecommunication Tower Proposal: 9253-9255 Woodbine Avenue, Markham

Agenda

1. Proposed Tower Location
2. Weakness in Network Coverage
3. Public Consultation
4. Health and Safety

Proposed Tower Location



[illegible]

Landscaping to Screen Equipment

20.00 m



W3963- 9253-9255 Woodbine Ave, Markham, ON

Before



View from Woodbine Avenue looking northeast towards the proposed Bell tower.

After



Proposed Bell tower shown at approximately 20 metres in height. The photo simulation is based on pre-construction information. Photograph is taken approximately 68 metres from tower location.

PHOTOGRAPHIC SIMULATION
BEFORE AND AFTER





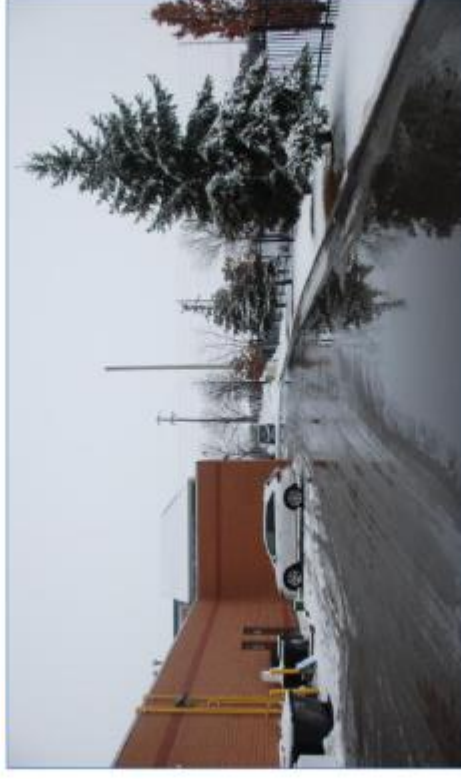
W3963- 9253 & 9255 Woodbine Avenue, Markham, ON

Before



View from rear of 9255 Woodbine Ave commercial plaza looking northwest towards the proposed Bell monopole tower.

After

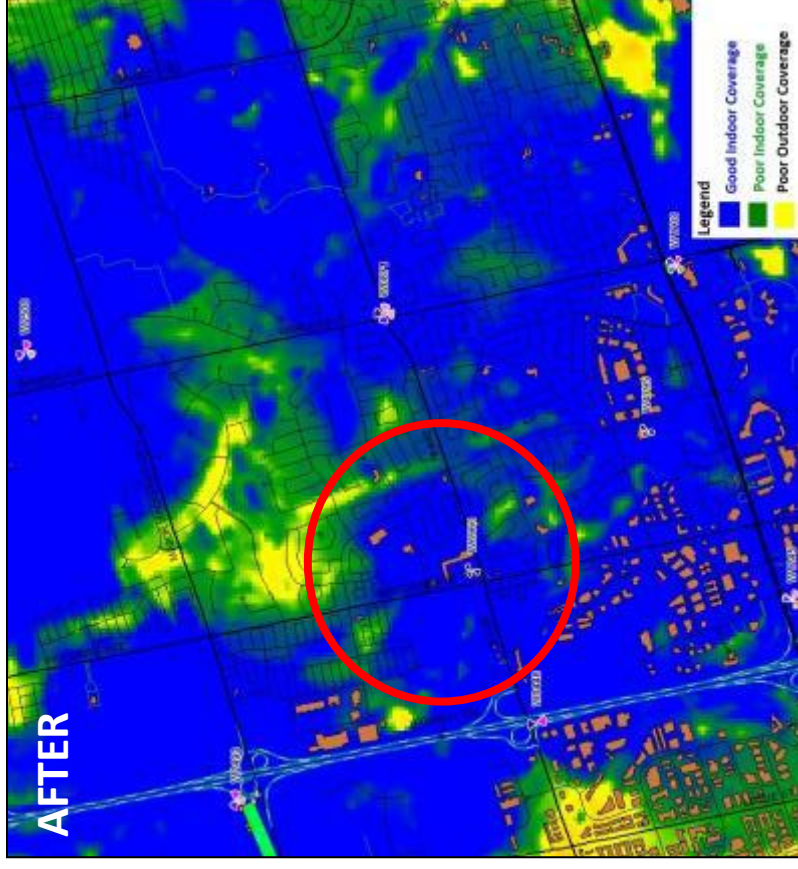
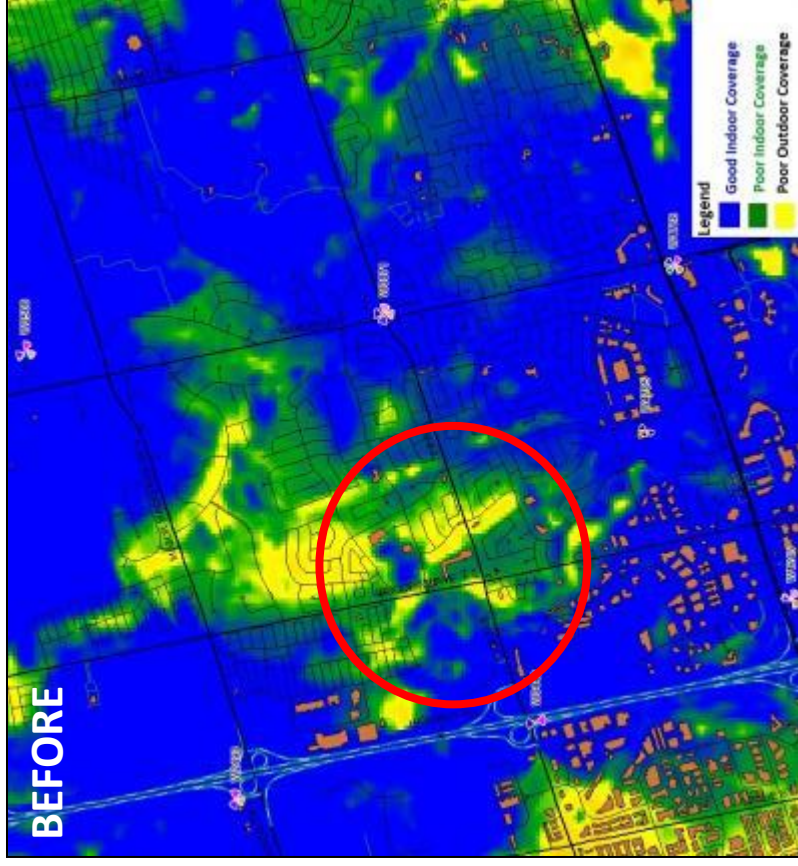


Proposed Bell tower shown at approximately 20 metres in height. The photo simulation is based on pre-construction information. The photograph location is approximately 44 metres from the tower location.

PHOTOGRAPHIC SIMULATION BEFORE AND AFTER



Weakness in Network Coverage



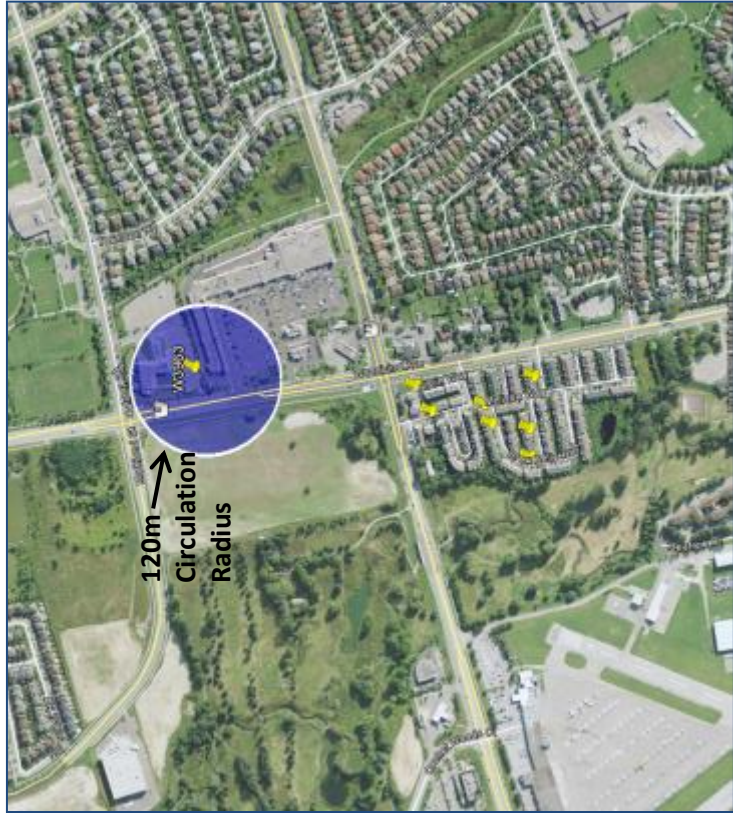
W3963 to improve 1km coverage

Public Consultation

- Public consultation commencement:
July 11, 2013
 - Public Information Meeting
July 31, 2013
 - Public Consultation Concluded:
August 12, 2013
-
- Notice was mailed to all property owners within 120 metres.
 - Councillor's office circulated to a larger radius.
 - 2 members of the public attended the public meeting. **No objections from the public at the end of consultation.**



- Notice Sent **October 17, 2013**
Despite public consultation concluding **more than 2 months ago**.
- Objections coming from residents 0.3-0.5 kilometers away from tower location



Alan Ho
Councillor, Ward 6



RECEIVED
OCT 17 2013

NOTICE OF PUBLIC MEETING
- BELL TELECOMMUNICATIONS TOWER
AT 9253 WOODBINE AVENUE -

Dear Residents,

You are invited to attend a Presentation by Bell Mobility to the Development Services Committee of the City of Markham regarding an application for a 20.0 metre high ~~monopole telecommunications tower and associated equipment cabinet located at the northeast corner of the intersection of Woodbine Ave. & 16th Ave. (Cachet Centre Shopping Plaza).~~

DATE: Tuesday, November 5th, 2013

TIME: 9:00 a.m.

PLACE: Council Chamber, Markham Civic Centre
101 Town Centre Boulevard, Markham, Ontario, L3R 9W3

This meeting will give you the opportunity to meet the applicant and the Staff of the City of Markham and express any concerns you may have regarding the proposal. Please join us at this important meeting.

Sincerely,

Councillor Alan Ho
City of Markham



Health and Safety

- International Health Agency and Panel Reviews have concluded that there is no convincing evidence showing health risks associated with RF exposure.



Table 1: International health agency and panel reviews: Summary of conclusions

Review	Conclusions
International Agency for Research on Cancer (IARC) 2013 ¹	Overall evaluation of RF fields as Group 2B carcinogen. The Working Group concluded: there is limited evidence in humans for the carcinogenicity of RF-EMF based on positive associations between glioma and acoustic neuroma and exposure to RF-EMF from wireless telephones. Environmental exposure to RF-EMF: no solid data.
Norwegian Institute of Public Health (NIPH) 2012 ¹⁵	The large total number of studies provides no evidence that exposure to weak RF fields (i.e., exposure within ICNIRP* reference values) causes adverse health effects. Some measurable biological/physiological effects cannot be ruled out. There is no reason to recommend reduced exposure to RF fields to reduce general concerns about the hazardous effects of electromagnetic fields.
UK Health Protection Agency's Independent Advisory Group on Non-ionising Radiation (AGNIR) 2012 ¹⁶	Although a substantial amount of research has been conducted in this area, there is no convincing evidence that RF field exposure below guideline levels causes health effects in adults or children.
Swedish Council for Working Life and Social Research (FAS) 2012 ¹⁷	Extensive research for more than a decade has not detected anything new regarding interaction mechanisms between RF fields and the human body and has found no evidence for health risks below current exposure guidelines. While absolute certainty can never be achieved, nothing has appeared to suggest that the long established interaction mechanism of heating would not suffice as basis for health protection.
Health Council of the Netherlands. 2011 ¹⁸	(More data are available, but not on effects in young children: studies were conducted almost exclusively in children over the age of 10 years. At this time, it can only be concluded that the still relatively limited available data do not indicate any effects on the development of the brain or on health if children are exposed to RF electromagnetic fields such as those generated by mobile telephones, mobile telecommunications antennas or Wi-Fi facilities.
Latin American Experts Committee on High Frequency Electromagnetic Fields and Human Health 2010 ¹⁴	(Current science-based evidence points to these being no adverse effects in humans below thermal thresholds, no hazardous influences on the well-being and health status of users and non-users of cell phones and people living near base stations, and that no convincing evidence for adverse cognitive, behavioral and neurophysiological and other physiological effects exist.
European Commission Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR) 2009 ²⁰	Three independent lines of evidence (epidemiological, animal and in vitro studies) show that exposure to RF fields is unlikely to lead to an increase in cancer in humans. Further studies are required to identify whether considerably longer-term (well beyond ten years) human exposure to mobile phones might pose some cancer risk.
International Commission on Non-ionizing Radiation Protection (ICNIRP) 2009 ²¹	The scientific literature published since the 1998 (ICNIRP) guidelines has provided no evidence of any adverse effects below the basic restrictions and does not necessitate an immediate revision of the guidance on limiting exposure to high frequency electromagnetic fields.
Royal Society of Canada (RSC) 2009 ²²	No clear evidence of adverse health effects associated with RF fields, although continued research is recommended to address specific areas of concern, including exposure to RF fields among children using mobile phones.
Forschungszentrum Julich GmbH Institute of Neuroscience and Medicine (INM) 2009 ²³	The balance of evidence does not indicate an evaluated risk of RF EMF exposure for children's health.

Health and Safety

Health & Safety

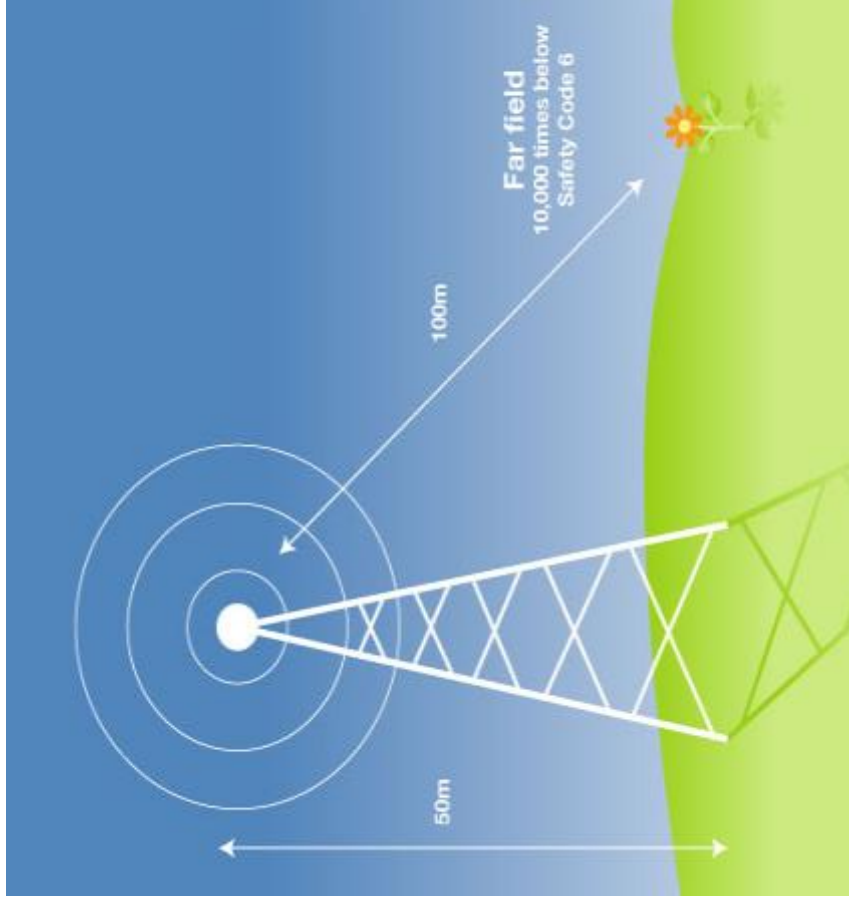
How Safety Code 6 Works

Safety Code 6

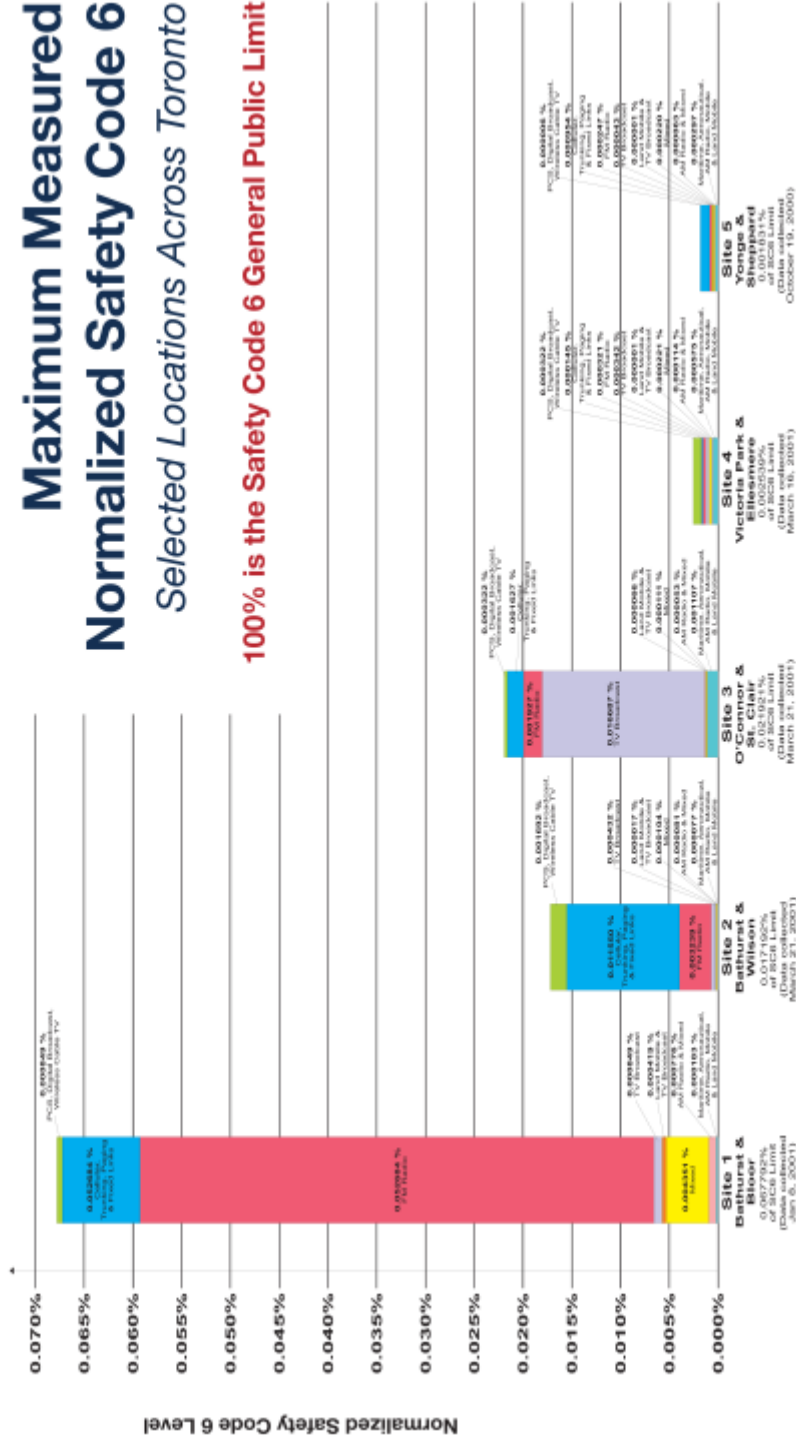
Industry Canada monitors compliance with Safety Code 6 – requirement of licensing process for each individual telecommunications facility

Developed by Health and Welfare Canada as guideline to specify maximum levels and exposure limits for radio-frequency fields in range of 10 kHz to 300 GHz

Code applies to all telecommunications facilities, including other broadcasting stations, medical and industrial devices, and consumer products



Health and Safety



Source: Spectrum Management, Ontario Regional Engineering, Industry Canada

Summary: Site Selection Criteria

- ✓ Minimize Negative Visual Impact
- ✓ 120 metres from a residential dwelling
- ✓ Avoiding significant natural features
- ✓ Avoiding towers in Heritage Conservation Districts
- ✓ Easy Existing Access for maintenance
- ✓ Shrouded design-Painted to match
- ✓ Additional carrier accommodation
- ✓ Landscaping provided to screen equipment

Thank you.

