

P.O. Box 1749 Halifax, Nova Scotia B3J 3A5 Canada

## Item 9.1.2 Harbour East - Marine Drive Community Council October 3, 2013

TO:	Chair and Members of Harbour East - Marine Drive Community Council
SUBMITTED BY:	Original signed s Brad Anguish, Director, Community and Recreation Services
DATE:	September 4, 2013
SUBJECT:	Case 18556: Telecommunications Tower, Ship Harbour

## **ORIGIN**

Application by Eastlink

## **LEGISLATIVE AUTHORITY**

*The Federal Radio Communication Act*; HRM has no jurisdiction to regulate telecommunications towers, however, Industry Canada requires that proponents consult with local land use authorities to address reasonable and relevant concerns on any proposed antenna system.

## **RECOMMENDATION**

It is recommended that Harbour East - Marine Drive Community Council:

- 1. Inform Industry Canada that they have no policy-based objection to the proposal by Eastlink to erect a new 76.2 metre (250 foot), self-supporting telecommunication tower and associated equipment cabinet located at Highway 7, Ship Harbour, Eastern Shore West, as shown on Attachment A of this report; and
- 2. Forward a copy of this report to Industry Canada for background purposes.

## BACKGROUND

Eastlink has submitted an application to locate a new 76.2 metre (250 feet) free standing selfsupport telecommunications tower at Highway 7, Ship Harbour, in between Lake Charlotte and Sheet Harbour. The tower is proposed within a leased portion of the subject property, as shown on Attachments A and B.

The proposed tower:

- is proposed to be located on the north-eastern portion of the subject property, approximately 95 metres (312 feet) from Highway 7 within a small leased portion of the subject property, as shown on Attachments A, B and D;
- will be free standing, self-supporting and 76.2 metres (250 feet) in height;
- will be constructed of steel lattice;
- is not required by Transport Canada to have lighting and painting at this location;
- will be accessed from Highway 7 via a proposed gravel driveway (Attachment A); and
- will be enclosed with 6-8 foot high steel wire fencing at the base and be equipped with anti-climb apparatus.

## Site Features and Surrounding Land Use

The subject property is:

- vacant and approximately 14.75 hectares (36.46 acres) in area;
- located within a rural area that is mostly undeveloped and used for forestry purposes;
- designated Mixed Use (MU) under the Municipal Planning Strategy (MPS) for Eastern Shore West (Map 1). The MU designation allows for a wide variety of uses and is designed to promote a rural way of living; and
- zoned MU (Mixed Use) Zone under the Land Use By-law (LUB) for Eastern Shore West (Map 2).

## **Municipal Process**

The federal government has jurisdiction over all forms of radio communication (radio and television broadcasting, microwave communication, private radio transmissions, etc.). Provincial and Municipal governments have little jurisdiction to interfere with or impair communication facilities licensed under federal law. Industry Canada is the federal agency which licenses and regulates these facilities under the provisions of the *Telecommunications Act* (S.C. 1993, c.38).

However, the federal government has recognized that municipal authorities may have an interest in the location of antenna structures and this should be considered in the exercise of its authority. A consultation protocol has therefore been instituted and is followed by HRM. The protocol requires that an applicant notify the appropriate municipality of its intentions and the municipality is then given an opportunity to review the proposal and provide comment. If any concerns arise, the municipality is to provide written notice to the local office of Industry Canada. The submissions will be reviewed by Industry Canada, who will then determine whether or not a license is to be granted and/or upon what conditions such license is granted.

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October 3, 2013

#### **Telecommunication Tower Functional Plan**

The Regional Municipal Planning Strategy (RMPS) acknowledges the federal policy encouraging municipal consultation when dealing with antenna structures and recognizes that the means of consultation is to be determined by the Municipality. Policy SU-31 of the Regional MPS directs HRM, in cooperation with Industry Canada and industry stakeholders, to prepare a functional plan to address community concerns regarding aesthetic and environmental impacts of telecommunication structures and facilities. Staff is currently working toward a proposed functional plan for Regional Council's consideration; however, until such time as a functional plan is adopted, the interim approach, as described above will be followed.

#### DISCUSSION

The MPS for Eastern Shore West does not contain specific guidance or policies regarding the siting of telecommunication towers. Instead, staff refers to the general evaluation criteria of the MPS (IM-10) when reviewing a telecommunication tower and these criteria provide relevant guidance to Council and staff. Of the criteria outlined in Attachment I, staff identified the following matters for specific discussion:

#### Visual Impact

The subject property is undeveloped and the tower is proposed in a largely forested area. The construction of the tower and proposed access does include the removal of trees and vegetation; however, the surrounding area will remain largely treed. The photo renderings (Attachments E and F) indicate that most of the tower will be visible from Highway 7, with the base obscured by vegetation. Given that area is predominantly used for resource management, the visual impact of the tower is not anticipated to be an issue.

#### **Physical Proximity**

As there is no formal policy in the MPS to guide the location of telecommunication towers to ensure adequate separation from adjacent properties, it is prudent to review past practices which indicate that incompatibility between uses can be addressed through screening or separation of uses. Minimum separation distances between towers and residential properties have often been established based on the measured height of a proposed tower. A separation distance based on tower height is founded on a precautionary principle to minimize risk in the unlikely event of structural failure. The base of the telecommunication tower is proposed to be set back approximately 430 metres (1412 feet) from the closest residential property, which is more than 5 times the height of the proposed 76.2 tower, thereby far exceeding the acceptable standard.

#### Health and Safety

Aside from land use issues, there are often concerns about potential health risks from the placement of telecommunication towers. Industry Canada requires that such systems are operated in accordance with the safety guidelines established by Health Canada in their document entitled *Limits of Human Exposure to Radiofrequency Electromagnetic fields in the Frequency Range from 3kHz to 300GHz*, commonly referred to as *Safety Code 6*. This document specifies the maximum recommended human exposure levels to radiofrequency energy from radiation emitting devices. The safety of wireless communication devices such as Wi-Fi equipment, cell

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phones, smart phones and their infrastructures, including base stations, is an area of ongoing study for Health Canada.

Prior to receiving a licence from Industry Canada, the operator must submit the calculations on the intensity of the radiofrequency fields to ensure that this installation does not exceed the maximum levels contained in *Safety Code 6* requirements. Information submitted in support of this proposal indicates no concerns in relation to *Safety Code 6* (Attachment H).

#### Summary

Staff has reviewed this application and found it to be consistent with local plan policy. Staff recommends that Harbour East - Marine Drive Community Council inform Industry Canada that they have no policy-based objection to the proposal by Eastlink.

## **FINANCIAL IMPLICATIONS**

The HRM costs associated with processing this planning application can be accommodated within the approved 2013/14 operating budget for C310 Planning & Applications.

## **COMMUNITY ENGAGEMENT**

The community engagement process is consistent with the intent of the HRM Community Engagement Strategy. Due to the extremely rural nature of the application and the lack of residential neighbours, the level of community engagement was consultation achieved through a mailout. Information was posted on the HRM website and mailed to property owners within the notification area as shown on Map 2. Staff did not receive any comments about this application.

A Public Hearing is not included in the telecommunication application process; Community Council simply forwards a recommendation to Industry Canada.

The location of the proposed tower would potentially impact the following stakeholders: local residents, property owners, telecommunication companies, and Industry Canada.

## **ENVIRONMENTAL IMPLICATIONS**

No implications have been identified.

## ALTERNATIVES

Community Council may choose to:

- 1. Inform Industry Canada that they have no policy-based objection to the proposal by Eastlink. This is the recommended due to the reasons outlined in this report.
- 2. Inform Industry Canada that they have additional comments or recommendations with respect to the proposed tower. In this event, staff will notify the local office of Industry Canada of Council's recommendations.

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3. Inform Industry Canada that they object to the proposal by Eastlink. Staff will notify the local office of Industry Canada of Council's recommendation.

## **ATTACHMENTS**

Map 1:	Generalized Future Land Use
Map 2:	Zoning and Notification
Attachment A	Site Plan
Attachment B	Compound Layout
Attachment C	Tower Elevation
Attachment D	Aerial Photo Plan View
Attachment E	Photo A Location
Attachment F	Photo B Location
Attachment G	Transport Canada - Aeronautical Obstruction Clearance Form
Attachment H	Safety Code Six Calculation
Attachment I	Excerpts from the Eastern Shore West MPS

A copy of this report can be obtained online at http://www.halifax.ca/commcoun/cc.html then choose the appropriate Community Council and meeting date, or by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by:	Jennifer Chapman, Planner 1, 490-3999	
	Original signed	
Report Approved by:	Kelly Denty, Mapager, Planning Approva 6 490-4800	

















# Attachment G: Transport Canada -Aeronautical Obstruction Clearance Form

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## **Attachment H: Safety Code Six Calculation**



Halifax, April 15<sup>th</sup> 2013

Site General Information				
Site Name	NSA305 - EL - Ship Harbour			
Community	Poplar Point			
Latitude	44-46-59.59N			
Longitude	62-53-59.23W			
Tower Height	76.2 m			
Tower Type	Guyed			
Number of antennas	6			

## Safety Code 6 Attestation for NSA305

It is the responsibility of operators of radio-communication and broadcasting installations to ensure that their facilities comply with Health Canada's Safety Code 6 at all times, taking into consideration the local radio environment. Compliance with Safety Code 6 is an ongoing obligation. EastLink acknowledges this obligation and its entire site design and operational processes reflect this.

To ensure compliance at the design stage, EastLink uses engineering best practices. These practices include preventing any access in front of the antenna, installing antennas to ensure at least a minimal distance from any windows, designing the site in a way that the public cannot come close to the antenna and never installing antennas near balconies. At all time and anywhere the general public can have access, emissions from EastLink's wireless installations are well below the established limits.

Once the site is built, EastLink continuously monitors the power of its equipment remotely and ensures Safety Code 6 compliance even in the event that equipment is changed or added to the site. Upon request by Industry Canada or other public authorities, EastLink can engage a third Party firm to perform live measurements to demonstrate compliance with the Safety Code 6.

Original signed

Robert Seibel

## Attachment I Excerpts from the Eastern Shore West MPS

IM-10 In considering development agreements and amendments to the land use bylaw, in addition to all other criteria as set out in various policies of this Strategy, Council shall have appropriate regard to the following matters:

(a) that the proposal is in conformity with the intent of this Strategy and with the requirements of all other municipal by-laws and regulations.

(b) that the proposal is not premature or inappropriate by reason of:

(i) the financial capability of the Municipality to absorb any costs relating to the development;

(ii) the adequacy of central or on-site sewerage and water services;

(iii) the adequacy or proximity of school, recreation or other community facilities;

(iv) the adequacy of road networks leading or adjacent to or within the development; and

(v) the potential for damage to or for destruction of designated historic buildings and sites.

(c) That controls are placed on the proposed development so as to reduce conflict with any adjacent or nearby land uses by reason of:

(i) type of use;

(ii) height, bulk and lot coverage of any proposed building;

(iii) traffic generation, access to and egress from the site, and parking;

(iv) open storage; and

(v) signs.

(d) that the proposed site is suitable in terms of the steepness of grades, soil and geological conditions, locations of watercourses, marshes or bogs and susceptibility to flooding; and (e) any other relevant matter of planning concern.

(f) Within any designation, where a holding zone has been established pursuant to "Infrastructure Charges - Policy IC-6", Subdivision Approval shall be subject to the provisions of the Subdivision By-law respecting the maximum number of lots created per year, except in accordance with the development agreement provisions of the MGA and the "Infrastructure Charges" Policies of this MPS. (RC-Jul 2/02;E-Aug 17/02)