Dear [Council]

This is a Freedom of Information Request.

**Section 1: 5G**

1. Do you have a 5G strategy?

1.1. If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

1.2. If yes, has the public had the opportunity to read and understand [Council’s] 5G strategy? Where was this information published?

1.3. If yes, I request the name/s of the Officer/s in charge of your 5G strategy and 5G and Smart City Rollout, along with the names of any consultants you have hired to help implement this strategy, and the CV and qualifications relevant to 5G and Smart Cities of all parties involved.

1.4. I also request a supplementary document that includes the greatest level of detail available on all 5G technology that is planned to be used and is currently in use in public spaces within [Council]:

(a) Companies and entities involved and the names of the company/entity officers.

(b) Specification sheets of 5G technology.

(c) What technology e.g. units and arrays are not currently 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting?

(d) If this 5G strategy and existing 5G technology comply with Safety Code 6.

(e) I request proof e.g. a certificate from [Council] that confirms that Safety Code 6 standards for workers and the public have been met.

1.4. If no, I request to know when you will be chairing a meeting that has your 5G and Smart City strategy on its agenda.

**Section 2: 3G & 4G, Public WIFI & Microcells**

2. Where do you have 3G and 4G systems, WIFI transmitters, and microcells in public spaces and on public roads?

2.1. Are you or the Telecom who owns these sites planning on upgrading them to 5G, or adding 5G transmitters to existing 3G and 4G sites?

**Section 3: Autonomous Vehicles**

3. Are you in talks with any experts, companies or entities about autonomous vehicles (AV) for public transport and/or private use on Public Highways?

3.1. If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

3.2. I also request a supplementary document that includes all levels of detail on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What type of communication system [Council] will be utilising to control the vehicles?

(d) What Canadian and International safety standards do your AV strategy and rollout comply with?

(e) I request proof e.g. a certificate from [Council] that confirms that Canadian and International safety standards for workers and the public have been met.

**Section 4: Smart Roads and Smart Signage**

4. Do you have a strategy for smart roads and smart signage on Public Highways and Public spaces?

4.1. If yes, I request to see the complete strategy, its ambitions and its objectives in PPTX, Word, PDF or picture format.

4.2. I also request a supplementary document that includes all available information on:

(a) Companies and entities involved and the names of the company/entity officers?

(b) Specification sheets of all technology.

(c) What technology e.g. units and arrays will not be 5G, but can be 5G enabled e.g. with current software, future software, hardware upgrades or retrofitting etc? (Please be specific.)

 (d) What Canadian and International safety standards do your 5G strategy and rollout comply with?

(e) I request proof e.g. a certificate from [Council] that confirms that Canadian and International safety standards for workers and the public have been met.

**Section 5: LED Street Lighting**

5. Are you planning to rollout or have you rolled out LED street lighting?

5.1. If yes, please answer these questions:

(a) What is the CMS and specification of the software and hardware of the LED street light system?

(b) What type of waveform is the LED? e.g. Square wave?

(c) Can you control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?

(d) Can you control the PWM of each streetlight that is connected to the system?

(e) What restrictions do you have in place for the control of the PWM?

(f) What are the Canadian and International safety limits (low and high) for the amount of ‘flicker’ (Hz) the Human Body and eyes can be exposed to and for how long?

(g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system.

(h) What company will or has installed the CMS LED streetlight system?

(i) What company maintains and repairs the CMS and LED streetlight system?

(j) What entities) and Officers are responsible for the safety standards for the CMS and LED streetlight system?

(k) I request proof e.g. a certificate from [Council] that confirms that Canadian and International safety standards for workers and the public have been met.

(l) What is the amount of Blue Light leakage that is safe for the public and workers during an LED streetlights’ operation?

(m) What level of LED streetlight exposure is safe for the public during the day and during the night?

(n) Is there a legal requirement for diffusers to be fitted to LED streetlights?

(o) How have you have addressed the amount of Oxidative Stress that is produced by exposure to LED?

5.2. If no, then I request a declaration from [Council] that you will not be installing LED streetlights in the future. If you cannot provide a declaration, I would like the following answered in the future tense:

(a) What are the CMS and specification of the software and hardware of an LED street light system you would install?

(b) What type of waveform would this LED system employ? e.g. Square wave?

(c) Will you be able to control the Pulse Width Modulation (PWM) of the streetlight system using the CMS?

(d) Will you be able to control the PWM of each streetlight that is connected to the system?

 (e) What restrictions will you have in place for the control of the PWM?

(f) What are the Canadian and International safety limits (low and high) for the amount of ‘flicker’ (Hz) the Human Body and eyes can be exposed to and for how long?

(g) I request to see the training manual and safety operation manual for the CMS and the LED streetlight system you will employ.

 (h) What company will install the CMS LED streetlight system?

(i) What company will maintain and repair the CMS and LED streetlight system?

(j) What entities and Officers will be responsible for the safety standards for the CMS and LED streetlight system?

(k) I request proof e.g. a certificate from [Council] that confirms that Canadian and International safety standards for workers and the public will be met.

(l) What is the amount of Blue Light leakage that is safe for the public and workers during an LED streetlights’ operation?

(m) What level of LED streetlight exposure is safe for the public during the day and during the night?

 (n) Is there a legal requirement for diffusers to be fitted to LED streetlights?

(o) How will you address the amount of Oxidative Stress on Human and Animal cells that is produced by exposure to LED?