

Radiation Safety of Radio Base Stations (W3C version)

	Description of visuals	Dialogue
1	The opening shot shows a hawker who is selling some outfits that claimed to be able to provide protection against radiation in a bustling street, has attracted a lot of passersby to stop by to have a look.	
2		The Hawker yells, "Come and have a look at the latest All Weather Anti-Radiation Outfit. No more worry about radiation from any transmitting stations (radio base stations) after wearing one. Bro, any interest?"
3		A Passerby says, "How come there is so much radiation?"
4		The Hawker replies, "There is something you may not know, bro. Hong Kong will soon enter the 5G era. By that time many radio base stations will be installed in various places. Radiation will hover over you days and nights. How will your health not be affected? Beauty, wanna buy one?"
5		The Passerby says, "Give me two in small size."
6		The Hawker says, "Two in small size, no problem!"
7	A mother and her son overhear the conversation between the hawker and the passersby. The mother wants to buy one but her son disagrees.	
8		The Mother says, "Son, it sounds really scary. Perhaps each of us should also buy one."

9		The Son replies, “Mum, don’t believe this kind of hearsay. It is not backed by any scientific evidence. Come on! We have to join dad for a meal...”
10	Meanwhile, the voice of the father comes from behind the mother and the son.	
11		The Father says, “That’s useless!”
12	When the mother and the son turn around, they see the father showing up in a cumbersome protective armor.	
13		The Son asks, “Dad, why do you dress like this?”
14		The Father replies, “I’m wearing the All Round Radiation-Shielding Armor Suit which is sold at the street corner at HK\$500 only. It provides complete protection from all kinds of radiation...”
15	Seeing the incredulous looks of his wife and his son, the father walks up to them and explains further.	
16		The Father says, “What? Haven’t you heard that with greater capability comes greater responsibility? To safeguard the health of my family, I have decided to buy two more suits for you. It’s really not easy to be a father...”
17		The Mother says, “Honey...”
18		The Father replies, “Darling”
19	The mother is deeply touched by her husband’s words and grasps both of his hands, leaving their son speechless.	
20		The Son says, “Enough! What you said is totally without scientific evidence. In fact, do you have any idea about the functions of radio base stations?”

21	The son turns to the crowd and asks whether they know about the functions of radio base stations. Everyone shakes their heads. The son takes out his mobile phone and plays an animated video to explain.	
22		The Son says, "Let me tell you more!"
23	The screen switches to a series of animated scenes, which show that 5G network is not only much faster than 4G in speed but will also enable the development of more new applications.	
24		The Voice-Over says, "5G network is the new generation of mobile communications network. Its speed is 10 to 20 times faster than that of 4G. Apart from allowing us to enjoy quality broadband services, 5G also enables the development of Internet of Things and new applications such as autonomous driving, remote surgery and smart home, which are indispensable for building a smart city."
25	The animation shows that radio base stations are installed at the rooftops of many buildings in the city.	
26		The Voice-Over says, "To realise its benefits, 5G, just like the existing mobile communications networks, requires the installation of radio base stations in order to ensure good network coverage for the provision of uninterrupted communications services."
27	The animation shows that a passerby has a question about radio base stations.	
28		The Passerby says, "But I heard that these radio base stations would emit radiation."
29		The Voice-Over says, "Don't worry. It is true that more radio base stations will be installed for rolling out 5G networks, but the radiation generated from these stations is in fact 'non-ionizing radiation'."

30	The shot zooms in on one of the radio base stations. The scene displays the super “Non-ionizing Radiation”.	
31		The Passerby asks, “What is “non-ionizing radiation”?”
32		The Voice-Oversays, “Sunlight, lamp light and radio broadcast are common examples of non-ionizing radiation to which we are exposed every day. Non-ionizing radiation differs greatly from ionizing radiation of X-rays and nuclear radiation for medical and industrial use.”
33	The scene displays a graph. The heading is “Non-ionizing Radiation”, under which pictures of the sun, a table lamp, a mobile phone, a microwave, a television and a hair dryer are shown. The shot zooms out and the heading “Ionizing Radiation” appears next to the heading “Non-ionizing Radiation”. Pictures of a radiograph and nuclear radiation appear below. Then, there is an animation showing a man in protective armor being hit by flashes of nuclear radiation.	
34		The Voice-Over continues to say, “Non-ionizing radiation has little energy and is incapable of changing the chemical properties of substances. Also, it cannot cause health hazard by breaking chemical bonds in the human body.”
35	The scene displays the super “According to the World Health Organization, there is no sufficient scientific evidence indicating that exposure of the human body to non-ionizing radiation below the safety limits will cause adverse health effects.”	
36	The scene of the animation shows that a person takes off his protective armor. Another scene shows that a staff member from the Office of the Communications Authority is using a device to measure the radiation level of the nearby radio base stations. The scene then displays a world map and the super “Similar safety standards are commonly adopted by many places, such as UK, US, Canada, Australia, New Zealand, Japan and Korea.”	

37		<p>The Voice-Over says, “Currently, all radio base stations installed in Hong Kong, before bringing into use, are required to obtain approval from the Communications Authority (CA) and comply with the safety standard of the International Commission on Non-ionizing Radiation Protection (ICNIRP) as adopted by the CA.</p> <p>The adoption of such standard is also supported by the Department of Health. Similar safety standards are commonly adopted by many places, such as UK, US, Canada, Australia, New Zealand, Japan and Korea.”</p>
38		<p>The passerby says, “So it is just over-worrying that non-ionizing radiation from radio base stations will cause adverse effects to our health.”</p>
39	<p>The animation shows that the passerby takes off his anti-radiation outfit bought from the hawker.</p>	
40	<p>The scene switches back to the real world. The passersby return the anti-radiation outfits to the hawker and leave. The father takes off his helmet and says to his wife.</p>	
41		<p>The Father says, “Just as I said, there can’t be so much radiation. Let’s go home.”</p>
42	<p>After watching his parents leave, the son says to the camera:</p>	
43		<p>The Son says, “If you are concerned about the level of non-ionizing radiation from radio base stations near your home, you may contact the Office of the Communications Authority (OFCA) to arrange for an on-site measurement of the radiation level to put your mind at ease.”</p>
44	<p>The screen displays the super: OFCA hotline: 2961 6648</p>	
45	<p>The last shot displays the logo of the Communications Authority and the address of the 5G website “www.5g.gov.hk”.</p>	