



22 March 2021

Zain Khan  
FYI request #14838

By email: [fyi-request-14838-4fa79c17@requests.fyi.org.nz](mailto:fyi-request-14838-4fa79c17@requests.fyi.org.nz)

**OFFICIAL INFORMATION ACT REQUEST 3 MARCH 2021**

Dear Mr Khan

1. We write in response to your OIA request which was received by email on 3 March 2021. You requested the following information:

*Q1. How many air traffic control sectors are managed by Airways, what are their identifier names, callsigns and relevant frequencies utilised by them?*

*Q2. What does the radar screens for these sectors look like? I understand the Lockheed Martin Skyline air traffic management system is used for domestic airspace and a CAE Oceanic system is used for oceanic airspace controlled in Auckland.*

*Q3. Of the aircraft tracks on radar, what information is displayed on their tags attached to the radar track?*

*Q4. What shapes are the aircraft tracks on radar when they come within primary, secondary or ADS-B radar?*

*Q5. What symbols are used to display airports, VORs, NDBs and RNAV fixes on the radar screens?*

*Q6. What colour is the background on the radar screens and do they differ for each position in control towers or area control centres?*

**Information provided**

2. We advise that we are providing the information you have requested. This information is enclosed in the schedule of this letter.

You are entitled to apply to the Ombudsman for a review of this decision pursuant to section 28(3) of the Act.

Yours sincerely,

Rachael Choy  
**Legal Counsel**

Airways

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## Schedule

**Q1. How many air traffic control sectors are managed by Airways, what are their identifier names, callsigns and relevant frequencies utilised by them?**

	<b>Sector Name</b>	<b>Location</b>	<b>Callsign</b>	<b>Frequency (mHz)</b>
1.	<i>Oceanic Radar</i>	<i>Auckland</i>	<i>Auckland Control</i>	<i>123.9</i>
2.	<i>Oceanic</i>	<i>Auckland</i>	<i>Auckland Oceanic</i>	<i>HF</i>
3.	<i>Auckland Approach</i>	<i>Christchurch</i>	<i>Auckland Approach</i>	<i>124.3</i>
4.	<i>Raglan</i>	<i>Auckland</i>	<i>Auckland Control</i>	<i>126.0</i>
5.	<i>Bay Approach</i>	<i>Christchurch</i>	<i>Bay Approach</i>	<i>119.5</i>
6.	<i>Taranaki</i>	<i>Christchurch</i>	<i>Christchurch Control</i>	<i>123.7</i>
7.	<i>Ohakea Approach</i>	<i>Christchurch</i>	<i>Ohakea Approach</i>	<i>125.1</i>
8.	<i>Ohakea Area</i>	<i>Christchurch</i>	<i>Ohakea Control</i>	<i>126.2</i>
9.	<i>Wellington Approach</i>	<i>Christchurch</i>	<i>Wellington Approach</i>	<i>119.3/122.3</i>
10.	<i>Kaikoura</i>	<i>Christchurch</i>	<i>Christchurch Control</i>	<i>129.4</i>
11.	<i>Christchurch Approach</i>	<i>Christchurch</i>	<i>Christchurch Approach</i>	<i>120.9/126.1</i>
12.	<i>South</i>	<i>Christchurch</i>	<i>Christchurch Control</i>	<i>129.3/128.1</i>
13.	<i>Queenstown Approach</i>	<i>Christchurch</i>	<i>Queenstown Approach</i>	<i>125.75</i>
14.	<i>Auckland Tower</i>	<i>Auckland</i>	<i>Auckland Tower</i>	<i>118.7</i>
15.	<i>Hamilton Tower</i>	<i>Hamilton</i>	<i>Hamilton Tower</i>	<i>122.9</i>
16.	<i>Tauranga Tower</i>	<i>Tauranga</i>	<i>Tauranga Tower</i>	<i>118.3</i>
17.	<i>Rotorua Tower</i>	<i>Rotorua</i>	<i>Rotorua Tower</i>	<i>121.2</i>

Airways

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18.	<i>Gisborne Tower</i>	<i>Gisborne</i>	<i>Gisborne Tower</i>	<i>127.3</i>
19.	<i>Napier Tower</i>	<i>Napier</i>	<i>Napier Tower</i>	<i>124.8</i>
20.	<i>New Plymouth Tower</i>	<i>New Plymouth</i>	<i>New Plymouth Tower</i>	<i>124.7</i>
21.	<i>Ohakea Tower</i>	<i>Ohakea</i>	<i>Ohakea Tower</i>	<i>134.5</i>
22.	<i>Palmerston North Tower</i>	<i>Palmerston Nth</i>	<i>Palmerston Tower</i>	<i>120.6</i>
23.	<i>Wellington Tower</i>	<i>Wellington</i>	<i>Wellington Tower</i>	<i>118.8</i>
24.	<i>Paraparaumu Flight Service</i>	<i>Paraparaumu</i>	<i>Paraparaumu Information</i>	<i>118.3</i>
25.	<i>Nelson Tower</i>	<i>Nelson</i>	<i>Nelson Tower</i>	<i>127.4</i>
26.	<i>Woodbourne Tower</i>	<i>Woodbourne</i>	<i>Woodbourne Tower</i>	<i>122.8</i>
27.	<i>Christchurch Tower</i>	<i>Christchurch</i>	<i>Christchurch Tower</i>	<i>118.4</i>
28.	<i>Dunedin Tower</i>	<i>Dunedin</i>	<i>Dunedin Tower</i>	<i>120.7</i>
29.	<i>Queenstown Tower</i>	<i>Queenstown</i>	<i>Queenstown Tower</i>	<i>118.1</i>
30.	<i>Invercargill Tower</i>	<i>Invercargill</i>	<i>Invercargill Tower</i>	<i>118.5</i>
31.	<i>Milford Sound Flight Service</i>	<i>Milford Sound</i>	<i>Milford Information</i>	<i>118.2</i>

**Q2. What does the radar screens for these sectors look like? I understand the Lockheed Martin Skyline air traffic management system is used for domestic airspace and a CAE Oceanic system is used for oceanic airspace controlled in Auckland.**

Correct. Picture of BARCO monitor below, used for all domestic radar sectors.



**Q3. Of the aircraft tracks on radar, what information is displayed on their tags attached to the radar track?**

Listed below, in a basic layout. Picture included below as an example (not all text shown)

Alerts (EMG/Conflict/Airspace/Terrain)  
 Callsign, Wake Turbulence category, Aircraft type, Ground Speed, Flight owner(sector)  
 Current Altitude/Flight Level, Cleared Altitude/FL, Selected FL (in aircraft)  
 Destination, Squawk code, X-Note (free text note function)  
 STAR clearance. RTA (Required Time of Arrival)  
 Indicated Airspeed.



**Q4. What shapes are the aircraft tracks on radar when they come within primary, secondary or ADS-B radar?**

Unidentified Primary targets are displayed as Circles.

Secondary and ADS-B targets are displayed as either triangles or pentagons. Triangles for approach sectors, within 60nm of a radar head, Pentagons for all other radar sectors.

**Q5. What symbols are used to display airports, VORs, NDBs and RNAV fixes on the radar screens?**

Airways



Aerodromes, navigational aids and GNSS waypoints are all displayed as small triangle symbols.

***Q6. What colour is the background on the radar screens and do they differ for each position in control towers or area control centres?***

The background of the radar screens are a dark charcoal colour. There are no specific differences between towers and other sectors, however contrast and brightness settings can be adjusted to sector preferences.