

**From:** Airport Developments [mailto:Airport.Developments@AirservicesAustralia.com]  
**Sent:** Wednesday, 3 May 2017 4:20 PM  
**To:** Kristin Old <Kristin.Old@cwpa.com.au>  
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'Airspace.Protection@casa.gov.au' <Airspace.Protection@casa.gov.au>  
**Subject:** AIRSERVICES RESPONSE (NSW-WF-043 P4) - Bango Wind Farm [SEC=UNCLASSIFIED]

Hi Kristin,

I refer to your request for an Airservices assessment of the Bango Wind Farm.

### **Airspace Procedures**

With respect to procedures designed by Airservices in accordance with ICAO PANS-OPS and Document 9905, at a maximum tip height of 952m (3124ft) AHD, the wind farm will not affect any sector or circling altitude, nor any instrument approach or departure procedure at Young Airport. The wind farm will also not affect any air routes.

Note that procedures not designed by Airservices at Young Airport were not considered in this assessment.

### **Communications/Navigation/Surveillance (CNS) Facilities**

Based on the supplied *170320\_BAN\_200m WTG tip heights.docx* (attached), the Bango Wind Farm to a maximum wind turbine tip height of 952m (3124ft) AHD will not adversely impact the performance of Airservices Precision/Non-Precision Nav Aids, HF/VHF Comms, A-SMGCS, Radar, PRM, ADS-B, WAM or Satellite/Links.

Regards,

**Tony Aiezza**

**Senior Advisor Airport Development**

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<b>Turbine #</b>	<b>Easting</b>	<b>Northing</b>	<b>WTG Base Elevation (m/AMSL)</b>	<b>200m WTG Blade Tip Elevation (m/AMSL)</b>
1	671618	6174752	701	901
2	672551	6169350	742	942
3	671220	6172725	682	882
5	672506	6168805	722	922
7	671261	6169917	722	922
11	664944	6171739	650	850
12	672635	6169745	710	910
13	671656	6173805	661	861
14	664721	6172733	661	861
17	672377	6168142	711	911
18	663601	6172799	661	861
19	664006	6171605	631	831
21	662281	6173305	627	827
22	670581	6170580	701	901
24	671306	6169580	698	898
25	671131	6168379	680	880
26	669892	6171233	713	913
27	664756	6172455	648	848
28	670262	6173541	631	831
32	672716	6167943	721	921
33	672070	6170045	712	912
34	672357	6170336	699	899
35	663756	6172505	650	850
36	672238	6168456	713	913
41	664931	6176230	650	850
44	664806	6174230	674	874
45	671006	6168951	699	899
46	671465	6170340	717	917
47	671217	6169267	710	910
48	669615	6171540	698	898
49	664831	6175855	642	842
50	671015	6173890	646	846
53	670056	6172655	722	922
54	671370	6174593	708	908
55	669956	6172305	729	929
57	670581	6170855	752	952
58	671287	6174189	682	882
59	670190	6172964	662	862
60	671481	6173130	654	854
61	672625	6168300	732	932
62	671668	6167651	722	922
63	663056	6174030	640	840
65	663781	6172005	642	842
67	672228	6170535	696	896

69	669424	6173513	692	892
71	669565	6173814	651	851
72	663856	6171405	631	831
73	665140	6172054	631	831
76	665306	6176655	651	851
79	663431	6171805	631	831
80	671402	6173443	671	871
81	669706	6171830	733	933
83	669931	6172005	698	898
85	670956	6171280	713	913
86	665621	6171497	632	832
87	663831	6172255	642	842
88	663806	6174730	651	851
89	663681	6173030	657	857
91	669715	6174088	628	828
94	664806	6174530	649	849
95	670351	6173243	641	841
96	664131	6173380	651	851
97	664781	6175530	629	829
98	665231	6176430	651	851
100	670756	6171080	731	931
102	672301	6167831	721	921
104	664806	6173505	666	866
107	672458	6168591	721	921
110	671328	6172413	663	863
111	671558	6167971	695	895
114	663956	6173205	649	849
115	664704	6175039	633	833
118	664806	6173805	677	877
119	662440	6173814	622	822
122	672508	6169040	732	932