

COMMONWEALTH OF AUSTRALIA

ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

DECISION TO APPROVE THE TAKING OF AN ACTION

Pursuant to section 133 of the *Environment Protection and Biodiversity Conservation Act 1999*, I, ROBERT MURRAY HILL, Minister for the Environment and Heritage, approve the taking of the following action:

Building and operating a wind farm (comprising wind turbines, underground cables between turbines, electrical substations, control rooms and associated buildings, roads, fences and other infrastructure) with a capacity of up to 130 MW on two areas of land shown at annexure 2 as Lot 1 and Lot 2 on the Woolnorth property. The action also includes building a 50 kilometre 110kV powerline to connect the wind farm to the existing electricity grid at the Smithton substation. (EPBC 2000/12)

by Hydro-Electric Corporation (Hydro Tasmania) subject to the conditions set out in annexure 1.

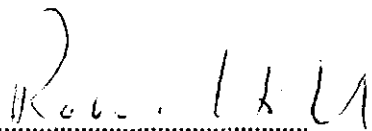
This approval has effect for:

sections 18 and 18A of the *Environment Protection and Conservation Biodiversity Act 1999*

sections 20 and 20A of the *Environment Protection and Conservation Biodiversity Act 1999*

This approval has effect until 31 August 2051.

Dated this 23rd day of August 2001



.....
MINISTER FOR THE ENVIRONMENT AND HERITAGE

ANNEXURE 1

1. The Hydro-Electric Corporation must prepare and submit for the Minister's approval a plan to repair or mitigate damage to the habitat of the Orange-bellied Parrot, away from the site of the action, to protect the species. These plans must include measures to create and/or manage Orange-bellied Parrot winter habitat for at least two sites. Measures to create and/or manage Orange-bellied Parrot winter habitat may include stock fencing, stock management, land management agreements, planting of native food species, provision of supplementary food crops, pest management and planting/protecting roosting sites. Unless the Minister agrees otherwise in writing, operation of the turbines must not commence until the Minister approves the plan. The plan must be implemented.
2. The Hydro-Electric Corporation must prepare and submit for the Minister's approval a plan to repair or mitigate damage to the habitat of the Wedge-tailed Eagle and the White-bellied Sea Eagle by identifying and protecting nesting habitat for up to eight Wedge-tailed Eagle breeding pairs and five White-bellied Sea Eagle breeding pairs in locations where the breeding pair's range will not include Lot 1 and 2. Unless the Minister agrees otherwise in writing, operation of the turbines must not commence until the Minister approves the plan. The plan must be implemented.
3. (a) At least one month before construction commences, the Hydro-Electric Corporation must prepare and submit for approval by the Minister a plan or collection of plans for managing the impacts of the wind farm on listed bird species at the site.

(b) At least one month before construction begins on each of stages 2, 3 and 4, the Hydro-Electric Corporation must revise the plan(s) referred to in (a), and submit the revised plans for approval by the Minister.

(c) Three years after stage 4 of the project is completed, and every three years after that, the Hydro-Electric Corporation must revise the plans referred to in (a) and submit the revised plans for approval by the Minister. However, the Minister may indicate in writing that a period longer than three years shall apply for the purpose of this paragraph.

(d) The action must be taken in accordance with the plans most recently approved by the Minister. If revised plans have been submitted to the Minister for approval prior to commencement of stage 2, 3 or 4, the Hydro-Electric Corporation must not commence that stage until the revised plan has been approved.

(e) The plan or collection of plans must include:
 - (i) monitoring to identify use of the site by listed bird species and impacts of the action on this use, and to verify bird strike modelling for listed bird species;

- (ii) monitoring to identify impacts of the action on listed bird species, particularly the Wedge-tailed Eagle and the White-bellied Sea Eagle;
 - (iii) vegetation management measures to reduce the attractiveness of Lot 1 and 2 for Orange-bellied Parrots and attract Orange-bellied Parrots to areas off-site; and
 - (iv) monitoring to evaluate the effectiveness of the vegetation management measures required by (iii).
- (f) Revised plans must include a summary of the results of all monitoring programs carried out under the plan(s) required by this condition.
- (g) If the period between submission of successive revised plans exceeds 12 months, a summary of the results of all monitoring programs carried out under the plan(s) required by this condition must be provided to the Minister every 12 months until the subsequent revised plan is submitted.
4. The Hydro-Electric Corporation must prepare and submit for approval by the Minister at least four months prior to commencement of construction activities for the power line, a plan for managing the impacts of the powerline on listed bird species. The plan must include:
- (a) the results and methodology of a detailed bird survey of the areas of land to be disturbed and relevant surrounding areas;
 - (b) details of avoidance and mitigation measures implemented in the project design to minimise risk of bird collision and electrocution, including a site plan;
 - (c) ongoing management of vegetation within the power line easement to deter the Orange-bellied Parrot.
5. Wind turbines must be placed at least:
- (a) 150 metres from sea cliffs;
 - (b) 500 metres from known Wedge-tailed Eagle and White-bellied Sea Eagle nest sites; and
 - (c) 200 metres from the wetlands marked as A and B in Annexure 2.
6. This condition applies if Orange-bellied Parrot mortality from collision with turbines on Lot 1 and 2 exceeds three birds per migration period in two or more migration periods during a two-year period.

The Hydro-Electric Corporation must notify the Minister as soon as practicable. The Hydro-Electric Corporation must prepare and submit for the Minister's approval a plan for reducing Orange-bellied Parrot mortalities. The plan must be implemented before the next migration period begins.

Definitions:

Listed bird species, for the purpose of this approval, means:

- (a) the Orange-bellied Parrot, *Neophema chrysogaster*;
- (b) the Wedge-tailed Eagle (Tasmanian subspecies), *Aquila audax fleayi* and the White-bellied Sea-Eagle, *Haliaeetus leucogaster*;
- (c) listed migratory waterbirds:
 - (1) Ruddy Turnstone, *Arenaria interpres*;
 - (2) Latham's Snipe, *Gallinago hardwicke*;
 - (3) Eastern Curlew, *Numenius madagascariensis*;
 - (4) Double-banded Plover, *Charadrius bicinctus*;
 - (5) Grey Plover, *Pluvialis squatarola*,
 - (6) Pacific Golden Plover, *Pluvialis fulva*;
 - (7) Red-necked Stint, *Calidris ruficollis*; and
 - (8) Curlew Sandpiper, *Calidris ferruginea*.

Lot 1 is as delineated in Annexure 3.

Lot 2 is as delineated in Annexure 3.

Migration period, for the purpose of condition 6, means:

- (a) the autumn migration of the OBP from 1 March to 30 June; or
- (b) the spring migration period for the Orange-bellied Parrot from 1 September to 30 November.

the power line means the 110kV power transmission line from Lot 1 and Lot 2 to the Smithton Electrical Substation.

Stage 1 means the initial development and operation of a wind farm on Lot 1 to generate up to 10MW of electricity.

Stage 2 means the development and operation of a wind farm on Lot 1, subsequent to stage 1, to generate up to 70MW of electricity.

Stage 3 means the initial development and operation of a wind farm on Lot 2 to generate up to 40MW of electricity.

Stage 4 means the development and operation of a wind farm on Lot 2, subsequent to stage 3, to generate up to 70MW of electricity.

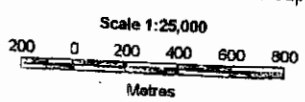



WEST COAST WIND FARM LOT 2 BORE LOCATIONS AND DRAINAGE

- ⊙ Bore location
- Turbine
- Substation
- Road
- Cable (circuit A)
- Cable (circuit B)
- △ Lot boundary
- Drainage
- ⋯ Ephemeral wetland/farm dam

Note: Infrastructure not to scale

Nominal Infrastructure layout
Full development Lot 2
Medium-sized machines, 36 MW capacity



Prepared by:

HYDRO TASMANIA
 SURVEY & GEOMATIC INFORMATION SERVICES
Hydro Tasmania is a wholly owned subsidiary of the Tasmanian Government. It is a not-for-profit organisation. Hydro Tasmania is a member of the International Geomatics Association (IGTA) and the International Association of Agricultural Geomatics (IAAG).

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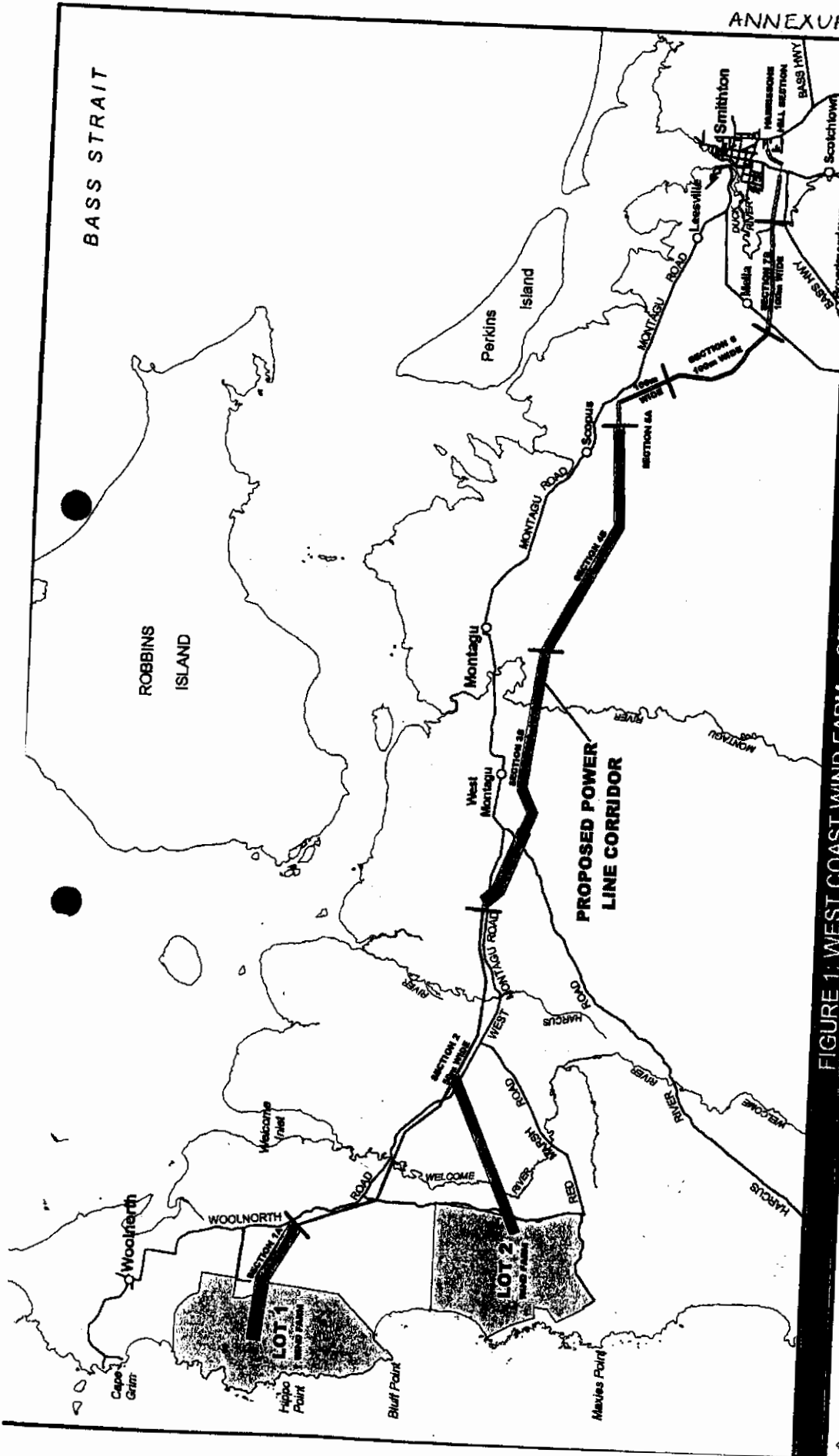


FIGURE 1: WEST COAST WIND FARM - GENERAL OVERVIEW

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Prepared by:
Hydro-Electric Corporation
 SURVEY & GEOGRAPHIC INFORMATION SERVICES
 Survey & Geographic Information Services Unit, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

G3034_1 REVISION 4
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Prepared by: Steve Lambert - Date: 27 July 2000

**VARIATION OF CONDITIONS OF APPROVAL
COMMONWEALTH OF AUSTRALIA
ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999**

Pursuant to section 143 of the *Environment Protection and Biodiversity Conservation Act 1999*, I, MALCOLM ANDREW FORBES, Assistant Secretary of the Environment Assessment and Approvals Branch, a delegate of the Minister for the Environment and Heritage for the purposes of that section, hereby vary the conditions attached to the approval granted on 23 August 2001 for the taking of the following action by the Hydro-Electric Corporation:

Building and operating a wind farm (comprising wind turbines, underground cables between turbines, electrical substations, control rooms and associated buildings, roads, fences and other infrastructure) with a capacity of up to 130 MW on two areas of land shown at Annexure 2 as Lot 1 and Lot 2 on the Woolnorth property. The action also includes building a 50 kilometre 110kV powerline to connect the wind farm to the existing electricity grid at the Smithton substation (EPBC 2000/12).

The variation is:

Delete sub-paragraph 3(d) of Annexure 1 to the approval and substitute the following:

3(d) The action must be taken in accordance with the plans most recently approved by the Minister. The Hydro Electric Corporation must not commence stage 2 (excluding activities referred to in (da)), stage 3 (excluding activities referred to in (db)) or stage 4 until the relevant revised plan(s) submitted pursuant to (b) have been approved by the Minister.

3(db) Geotechnical investigations of the sub-surface geology at turbine locations, comprising of:

- (i) Core drilling at 10 sites to approximately 15 metres depth.
- (ii) Auger drilling at 8 sites down to bedrock.
- (iii) Seismic testing at 15 to 20 sites.
- (iv) Dynamic cone penetrometer testing at 6 sites.

The geotechnical investigations must not clear any native vegetation.

This variation takes effect on the day that it is made.

Dated this 11th day of March 2005


.....
MALCOLM ANDREW FORBES

VARIATION OF CONDITIONS OF APPROVAL

COMMONWEALTH OF AUSTRALIA

ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

Pursuant to section 143 of the *Environment Protection and Biodiversity Conservation Act 1999*, I, GERARD PATRICK EARLY, First Assistant Secretary of the Approvals and Legislation Division, a delegate of the Minister for the Environment and Heritage, hereby vary the conditions attached to the approval granted on 23 August 2001 for the taking of the following action by the Hydro-Electric Corporation:

Building and operating a wind farm (comprising wind turbines, underground cables between turbines, electrical substations, control rooms and associated buildings, roads, fences and other infrastructure) with a capacity of up to 130 MW on two areas of land shown at Annexure 2 as Lot 1 and Lot 2 on the Woolnorth property. The action also includes building a 50 kilometre 110kV powerline to connect the wind farm to the existing electricity grid at the Smithton substation (EPBC 2000/12).

The variation is:

Delete sub-paragraph 3(d) of Annexure 1 to the approval and substitute the following:

3(d) The action must be taken in accordance with the plans most recently approved by the Minister. The Hydro Electric Corporation must not commence stage 2 (excluding activities referred to in (da)), stage 3 or stage 4 until the relevant revised plan(s) submitted pursuant to (b) have been approved by the Minister.

3(da) The clearance and burning of vegetation for the road and turbine areas for stage 2 must be done in accordance with the notice to the Hydro-Electric Corporation from the Director of Environmental Management, Department of Primary Industries, Water and the Environment dated 28 October 2002, provided under the permit 10/00 issued by the Circular Head Council under section 57(6) of the *Land Use Planning and Approvals Act 1993*. This variation takes effect on the day that it is made.

Dated this 11th day of November 2002



GERARD EARLY

VARIATION OF CONDITIONS OF APPROVAL

COMMONWEALTH OF AUSTRALIA

ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

Pursuant to section 143 of the *Environment Protection and Biodiversity Conservation Act 1999*, I, DAVID WILLIAM BORTHWICK, Secretary of the Department of the Environment and Heritage, a delegate of the Minister for the Environment and Heritage, hereby vary the conditions attached to the approval granted on 23 August 2001 and subsequently varied on 3 September 2001, 11 November 2002 and 11 March 2005 for the taking of the following action:

Building and operating a wind farm (comprising wind turbines, underground cables between turbines, electrical substations, control rooms and associated buildings, roads, fences and other infrastructure) with a capacity of up to 130 MW on two areas of land shown at Annexure 2 as Lot 1 and Lot 2 on the Woolnorth property. The action also includes building a 50 kilometre 110kV powerline to connect the wind farm to the existing electricity grid at the Smithton substation (EPBC 2000/12).

The variation is:

Delete 'The Hydro-Electric Corporation' as mentioned in paragraphs 1, 2, 3(a)(b)(d), 4 and 6 of Annexure 1 to the approval and substitute with 'Woolnorth Studland Bay Wind Farm Pty Ltd and Woolnorth Bluff Point Wind Farm Pty Ltd'.

Delete paragraph 3(c).

Insert paragraph 7 to read:

At least twelve months before decommissioning of any stage of the wind farm, Woolnorth Studland Bay Wind Farm Pty Ltd and Woolnorth Bluff Point Wind Farm Pty Ltd must submit a decommissioning plan for approval by the Minister that addresses the removal of structures and components built in that stage. Decommissioning may not commence until the plan is approved. The approved plan must be implemented.

Insert paragraph 8 to read:

Woolnorth Studland Bay Wind Farm Pty Ltd and Woolnorth Bluff Point Wind Farm Pty Ltd may submit for the Minister's approval a revised version of any plan approved under paragraphs 1,2,3,4,6 or 7. If the Minister

approves such a revised plan, that plan must be implemented in place of the plan as originally approved.

Insert paragraph 9 to read:

If the Minister believes that it is necessary or desirable for the better protection of the listed bird species to do so, the Minister may request Woolnorth Studland Bay Wind Farm Pty Ltd and Woolnorth Bluff Point Wind Farm Pty Ltd to make specified revisions to a plan or plans approved pursuant to paragraphs 1, 2, 3, 4, 6 or 7 and to submit the revised plan for the Minister's approval. Woolnorth Studland Bay Wind Farm Pty Ltd and Woolnorth Bluff Point Wind Farm Pty Ltd must comply with any such request. If the Minister approves a revised plan pursuant to this condition, Woolnorth Studland Bay Wind Farm Pty Ltd and Woolnorth Bluff Point Wind Farm Pty Ltd must implement that plan in place of the plan as originally approved.

Dated this 13 day of May 2005



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DAVID WILLIAM BORTHWICK
SECRETARY
DEPARTMENT OF THE ENVIRONMENT AND HERITAGE

VARIATION OF CONDITIONS OF APPROVAL

COMMONWEALTH OF AUSTRALIA

ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

Pursuant to section 143 of the *Environment Protection and Biodiversity Conservation Act 1999*, I, ANTHEA TINNEY, Deputy Secretary, Department of the Environment and Heritage, a delegate of the Minister for the Environment and Heritage, hereby vary the conditions attached to the approval granted on 23 August 2001 for the taking of the following action by the Hydro-Electric Corporation:

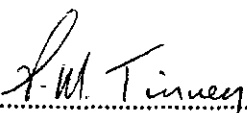
Building and operating a wind farm (comprising wind turbines, underground cables between turbines, electrical substations, control rooms and associated buildings, roads, fences and other infrastructure) with a capacity of up to 130 MW on two areas of land shown at annexure 2 as Lot 1 and Lot 2 on the Woolnorth property. The action also includes building a 50 kilometre 110kV powerline to connect the wind farm to the existing electricity grid at the Smithton substation. (EPBC 2000/12)

The variation is:

Delete paragraph 5 of Annexure 1 to the approval, and substitute the following:

5. Wind turbines must be placed at least:
- (a) 100 metres from sea cliffs;
 - (b) 500 metres from known Wedge-tailed Eagle and White-bellied Sea Eagle nest sites; and
 - (c) 200 metres from the wetlands marked as A and B in Annexure 2.

Dated this 3rd day of September 2001.


.....
ANTHEA TINNEY