

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.

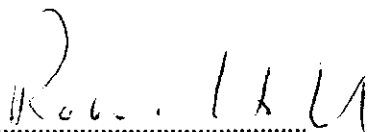
This approval has effect for:

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 & GEOGRAPHIC INFORMATION SERVICES

Scale 1:25,000
 200 0 200 400 600 800
 Metres

G2888_36 REVISION 2
 For any comments or enquiries regarding this map, please email: geospatial@hydro.tas.gov.au

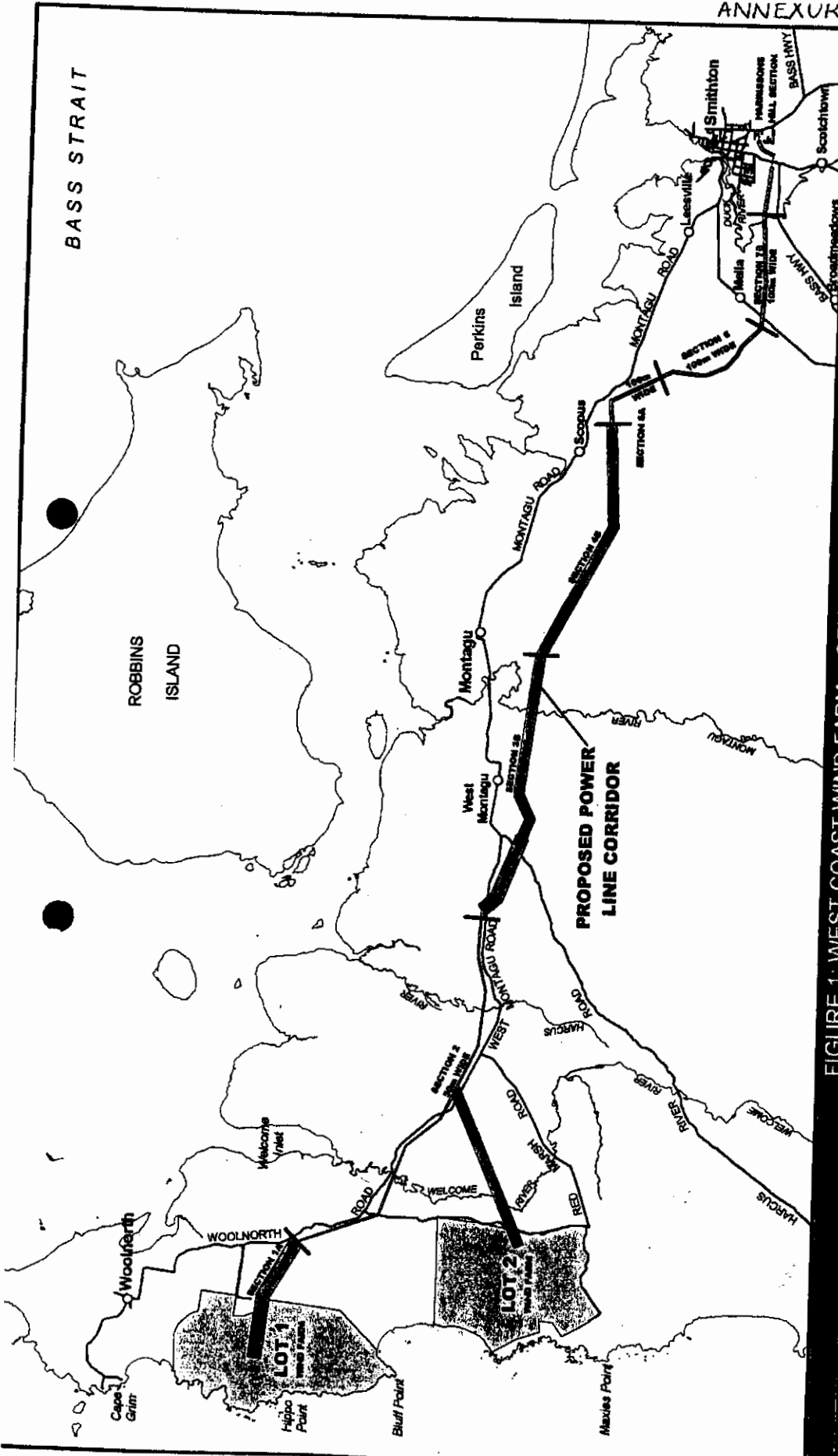



FIGURE 1: WEST COAST WIND FARM - GENERAL OVERVIEW

Prepared by:

Hydro-Electric Corporation
 SURVEY & GEOGRAPHIC INFORMATION SERVICES
 1997-2000 South African Government of the Western Cape
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 2007-2010 South African Government of the Western Cape
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 2016-2019 South African Government of the Western Cape
 2019-2022 South African Government of the Western Cape
 2022-2025 South African Government of the Western Cape
 2025-2028 South African Government of the Western Cape
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 For any statements or enquiries regarding this map, contact: gid@hydro-ec.co.za



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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

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).

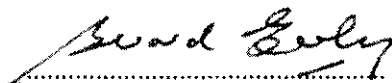
The variation is:

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, 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, 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



.....
DAVID WILLIAM BORTHWICK
SECRETARY
DEPARTMENT OF THE ENVIRONMENT AND HERITAGE

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, DAVID ALISTAIR KEMP, Minister for the Environment and Heritage, approve the taking of the following action:

The establishment of four wind farms (comprising wind turbines, underground cabling, control rooms and associated buildings, roads, fences and other infrastructure) in the southwest region of Victoria at Ngoorantook, Cape Bridgewater, Cape Nelson, and Cape Sir William Grant (EPBC 2000/18).

by Pacific Hydro Limited subject to the conditions set out in annexure 1.

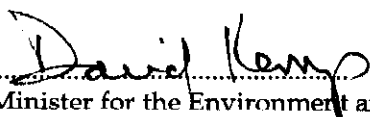
This approval has effect for:

Sections 18 and 18A (Listed threatened species and communities) of the *Environment Protection and Biodiversity Conservation Act 1999*

Sections 20 and 20A (Listed migratory species) of the *Environment Protection and Biodiversity Conservation Act 1999*

This approval has effect until 18 October 2052.

Dated this 17th day of October 2002


Minister for the Environment and Heritage

ANNEXURE 1

1. Pacific Hydro Limited must prepare and submit for the Minister's approval either a vegetation management plan covering the four wind farm locations or vegetation management plans for each of the four wind farm locations. The plan/s must address onsite native vegetation management, weed management and additional Spring survey work to identify nationally significant flora species. Construction at each site may not begin until the plan for that site has been approved. The approved plan/s must be implemented.
2. Pacific Hydro Limited must prepare and submit for the Minister's approval either a bird and bat management plan covering the four wind farm locations or bird and bat management plans for each of the four wind farm locations. The plan/s must address monitoring to identify use of the site by listed bird and bat species and procedures to mitigate impacts resulting from the wind farm. The plan which covers the Ngorantook site must also include utilisation and behaviour monitoring, onsite and offsite vegetation management, and procedures to mitigate impacts in the event of Orange-bellied Parrot mortalities as a result of collision with turbines. Construction at each site may not begin until the plan for that site has been approved. The approved plan/s must be implemented.
3. Wind turbines must be placed at least:
 - (a) 150 metres from sea cliffs; and
 - (b) 200 metres from the Yambuk wetland.

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The Hon Dr David Kemp MP

Minister for the Environment and Heritage

Minister > Dr David Kemp > 2002 > 2001 > 2000 > 1999 > 1998 > 1997 > 1996

Media Release**Minister for the Environment and Heritage
Dr David Kemp**

18 October 2002

K183

Portland Wind Farm Approved With Conditions

The Federal Minister for the Environment and Heritage, Dr David Kemp, has given environmental approval, subject to conditions, to the proposed Portland Wind Farm under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

The proposal involves the establishment of four wind farms near Portland, in the southwest of Victoria, at Ngoorantook, Cape Bridgewater, Cape Nelson, and Cape Sir William Grant.

The proposal was assessed under an accredited assessment arrangement with the Victorian Government under the Victorian *Environment Effects Act 1978*. The assessment process highlighted concerns over the risk of bird collisions, particularly the Orange-bellied Parrot, with the wind turbines.

"I initiated an independent expert review by Uniquist Pty Ltd, which confirmed the findings of the assessment report and found that there was a very low risk that an increase in bird deaths from the development would interfere with the recovery of the endangered Orange-bellied Parrot," Dr Kemp said.

Predicting a risk of collision of only one bird every five years, the Uniquist report states: "The model suggests that, at worst, the wind farm would increase the extinction risk over 20 years by less than 1% in absolute terms. This conclusion is robust to some uncertainty in the model and to variation in collision rates over time."

"I have also required that plans for ongoing management and monitoring of Commonwealth listed birds and their habitat are submitted for my approval prior to construction at each of the four wind farm sites," Dr Kemp said.

"The growing number of wind farm proposals has the potential to impact on listed bird species and it is important that we are able to assess the risks accurately. I intend to develop guidelines for future proposals that ensure the most effective modelling methods are used.

"Having made the decision, I am very pleased to note that this proposal and flow-on development has the potential to inject nearly \$100 million into the regional economy and nearly \$300 million into the Australian economy. The establishment of a wind energy industry could create up to 750 jobs for Portland and 1,350 jobs for regional Victoria.

"There are long term environmental benefits from wind energy generation, particularly in reducing greenhouse gases. This proposal is likely to reduce Victoria's greenhouse emissions by the equivalent of 900 000 tonnes of carbon dioxide each year. This represents one per cent of Australia's

national reduction target agreed under the Kyoto protocol."

A copy of the Minister's approval decision and conditions for the proposal is available on the Environment Australia web site at: <http://www.ea.gov.au/epbc/publicnotices/index.html>.

Media contact:

Catherine Job (02) 6277 7640 or 0408 648 400

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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 Wildlife Division, a delegate of the Minister for the Environment and Heritage, hereby vary the conditions attached to the approval granted on 17 October 2002 for the taking of the following action by Pacific Hydro Limited:

The establishment of four wind farms (comprising wind turbines, underground cabling, control rooms and associated buildings, roads, fences and other infrastructure) in the southwest region of Victoria at Ngoorantook, Cape Bridgewater, Cape Nelson and Cape Sir William Grant (EPBC 2000/18).

The variation is:

Insert a new paragraph stating:

For the purposes of paragraphs 1 and 2, construction of the Cape Bridgewater Electricity Substation only, as described in the Pacific Hydro Limited application to develop the Cape Bridgewater electricity substation dated 31 March 2006, may commence before approval of the vegetation and bird and bat management plans.

Dated this 29th day of May 2006



GERARD PATRICK EARLY
FIRST ASSISTANT SECRETARY
Approvals and Wildlife Division

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, ALEXANDRIA RANKIN, Assistant Secretary, Environment Assessment Branch, Approvals and Wildlife Division, Department of the Environment and Heritage, a delegate of the Minister for the purposes of that section, approve the taking of the following action:

to construct and operate a wind farm (comprising between 47 and 80 wind turbine generators; underground cables between turbines; electrical substations; control rooms and associated buildings; roads, fences and other infrastructure) on the Cape Portland Property adjacent to Little Musselroe Bay on the northeast coast of Tasmania; and to construct and maintain a transmission line connection to the existing electricity grid at the Derby Electricity Sub-Station (EPBC 2002/683)

by Musselroe Wind Farm Pty Ltd (a subsidiary of Hydro Tasmania) subject to the conditions set out in ANNEXURE 1.

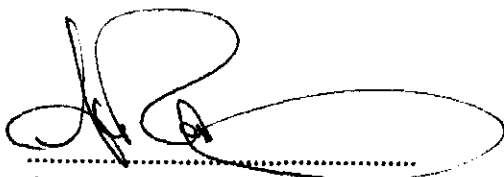
This approval has effect for:

Sections 18 and 18A (Listed threatened species and communities)
Sections 20 and 20A (Listed migratory species)

of the *Environment Protection and Biodiversity Conservation Act 1999*

This approval has effect until 31 September 2055.

Dated this 19th day of OCTOBER 2005



ALEXANDRIA RANKIN
ASSISTANT SECRETARY
ENVIRONMENT ASSESSMENT BRANCH

ANNEXURE 1

1. The person taking the action may only construct wind turbine generators 1-5 within 50 metres of the locations shown in Figure 1 at Annexure 2.
2. The person taking the action may construct turbine 6 anywhere outside of the bird sensitive area described in Figure 1 at Annexure 2. However, if the person taking the action wishes to construct turbine 6 within the bird sensitive area, the following must occur:
 - a. Turbine 6 may only be constructed at Tank Hill in the bird sensitive area after construction of all other clusters of turbines, and Turbine 6 may only be energised after the requirements of paragraphs 2b, 2c, 2d and 2e have been met;
 - b. Surveys must be undertaken of listed migratory bird utilisation, numbers and behaviour over a minimum of 18 months, within an 800m radius around the proposed turbine 6 site at Tank Hill (which includes Vinegar Hill Lagoon), using the principles of Multiple Before-After-Control-Impact (MBACI) design;
 - c. Based on the surveys required under paragraph 2b, thresholds for unacceptable levels of disturbance to listed migratory birds and alienation of those birds' habitat must be formulated;
 - d. Measures to mitigate unacceptable levels of disturbance and alienation must be formulated, including shutdown procedures and the removal of turbine 6, to reduce disturbance to listed migratory birds to an acceptable level when the thresholds required under paragraph 2c are triggered.
 - e. The person taking the action must submit a plan with the surveys, the thresholds and mitigation measures required under paragraphs 2b, 2c and 2d to the Minister for approval. The approved plan must be implemented.
3. The person taking the action must prepare and submit for the Minister's approval a plan or plans to mitigate impacts on listed migratory birds and listed threatened species, and their habitats, during the construction and operational phases of the Musselroe Wind Farm development. The plan or plans must include:
 - a. identification of key landscape features and habitat used by listed threatened species and listed migratory species;
 - b. identification of flight paths and preferred foraging areas of the Wedge-tailed Eagle and listed migratory species;
 - c. strategies to limit potential raptor food resources on the Musselroe wind farm site;
 - d. construction of wind turbine generators with non-lattice towers;
 - e. siting of wind turbine generators at least 300m apart, and at least 200m from *No Wind Turbine Areas*;
 - f. locations of infrastructure, including all buildings, roads, cables, construction areas, and underground power and communication cables;

- g. measures to avoid construction activity and vehicle access within the *No Development Areas* as described in the Environmental Assessment Report (pp.15-16);
- h. measures to prevent disturbance to habitat of listed threatened species and migratory birds within 50m of any construction activity prior to commencement;
- i. measures to minimise and rehabilitate areas of vegetation clearance, and for weed control;
- j. measures to prevent erosion and sedimentation to protect water quality;
- k. an induction program to inform all construction contractors of the importance of protecting listed threatened and migratory species and their habitat and the measures in place to achieve this; and
- l. measures to monitor and report on the above.

The Musselroe Wind Farm development must not commence until the plan has been approved. The approved plan must be implemented.

4. The person taking the action must prepare and submit for the Minister's approval a plan or plans to monitor the utilisation, behaviour and mortality of the listed threatened birds and listed migratory birds on the Musselroe Wind Farm site. The plan or plans must address:
 - a. the results of scavenger trials in developing the mortality survey program;
 - b. the principles of Multiple Before-After-Control-Impact (MBACI) design in the monitoring of bird utilisation and behaviour;
 - c. a minimum of one year of utilisation and behaviour surveys prior to commencement of construction of any wind turbine generators;
 - d. a minimum of three years of surveys post-commissioning of the first wind turbine generator in the bird sensitive area, and surveys every three years thereafter;
 - e. In addition to the monitoring requirements under paragraph 4d, if turbine 6 is constructed in the bird sensitive area, as allowed under paragraph 2, annual surveys must be conducted up to 800m around the radius of that turbine to determine the extent of impact on listed migratory birds;
 - f. objectives, methodology, implementation timetable, a reporting program, and corrective actions if listed bird mortalities, disturbance and alienation exceed the expected levels in the information provided by Hydro Tasmania;
 - g. benchmarks for bird mortalities, disturbance and alienation to trigger corrective actions required under 4(f) and;
 - h. a review of monitoring results at completion of the three years of post-commissioning surveys to determine if further monitoring or corrective actions are required.

The Musselroe Wind Farm development must not commence until the plan has been approved. The approved plan must be implemented.

5. The person taking the action must prepare and submit for the Minister's approval a plan or plans to mitigate impacts on the habitats of listed migratory birds and listed threatened species, including the flight paths of listed bird species, during construction and maintenance of the transmission line. The plan or plans must include:
- a. a site map or maps of the final transmission line corridor and alignment, including the location of transmission line towers; associated buildings, roads and construction areas; key landscape features and vegetation communities; and locations of any known Wedge-tailed Eagle and White-bellied Sea Eagle nests and Spotted-tailed Quoll den sites;
 - b. measures to prevent potentially disturbing activities during the Wedge-tailed Eagle breeding season of August – January;
 - c. a sight buffer of at least 500m from any known Wedge-tailed Eagle nest or White-bellied Sea-eagle nest;
 - d. a buffer of at least 200m from any known Spotted-tailed Quoll den sites from late winter to the end of spring;
 - e. measures to mitigate bird electrocution from transmission towers;
 - f. measures to mitigate bird collisions with transmission lines and associated infrastructure at high risk areas, including within 50m of any potential Swift Parrot foraging habitat, and where the transmission line crosses the Ringarooma River and Marsh Creek Dam;
 - g. measures to minimise vegetation clearance, including measures to protect potential foraging habitat of the Swift Parrot and denning habitat for the Spotted-tailed Quoll;
 - h. measures for weed control, and measures to prevent erosion and sedimentation to protect water quality; and
 - i. measures to monitor and report on the above.

The Musselroe Wind Farm development must not commence until the plan has been approved. The approved plan must be implemented.

6. The person taking the action must prepare and submit for the Minister's approval a plan to offset the impacts of the proposal on the Wedge-tailed Eagle. The offset plan must address:
- a. objectives and methodology;
 - b. an implementation table; and
 - c. actions to promote the recovery of the Wedge-tail Eagle including the protection of nest sites; and
 - d. an analysis of the risks of the impact of electrical infrastructure on eagles, and measures to reduce the risk of electrocution to eagles; and
 - e. a reporting program.

The Musselroe Wind Farm development must not commence until the plan has been approved. The approved plan must be implemented.

7. On 1 July of each year after the date of this approval, the person taking the action must provide a certificate stating that the conditions of this Approval have been complied with.
8. If the person taking the action wishes to carry out any activity otherwise than in accordance with the plans referred to in paragraphs 2, 3, 4, 5 and 6 the person taking the action may submit for the Minister's approval a revised version of any plan or part of any plan approved under paragraphs 2, 3, 4, 5 and 6. If the Minister approves such a revised plan or part of a plan, that plan or part of that plan must be implemented in place of the plan or part of the plan as originally approved.
9. If the Minister believes that it is necessary or desirable for the better protection of listed threatened species to do so, the Minister may request that the person taking the action make specified revisions to a plan or part of a plan approved pursuant to paragraphs 2, 3, 4, 5 and 6 and to submit the revised plan or revised part of the plan for the Minister's approval. The person taking the action must comply with any such request. If the Minister approves a revised plan or revised part of a plan pursuant to this condition, the person taking the action must implement that plan or part of that plan, instead of the plan or part of the plan as originally approved.
10. If, at any time after 5 years from the date of this approval, the Minister notifies the person taking the action in writing that the Minister is not satisfied that there has been substantial commencement of the Musselroe Wind Farm development, the Musselroe Wind Farm development must not thereafter be commenced.

Definitions

Bird sensitive area

The bird sensitive area is defined in Figure 1 at Annexure 2.

Energised

The first time the blades of the turbine unit are turned on to produce electric power for the purpose of generating of electricity.

References

Environmental Assessment Report

(November 2004)

Environmental Assessment Report: Musselroe Wind Farm Project, Hydro Tasmania

Report and recommendations of Major Projects Assessments Section
Department of Primary Industries, Water and Environment (Tasmania)

MBACI (Multiple Before-After-Control Impact)

Underwood A.J. (1991) *Beyond BACI: experimental designs for detecting human environmental impacts on temporal variations in natural populations.*

