ADDITIONAL AMENDMENTS

	, اـــا	Amended layout of buildings/outside areas		
_	<u> </u>	Additional background information		
		Amended design		
		Revised access arrangements		
<u> </u>		Change of description of proposed development - as indicated on the	previous	bage
		Change in site boundaries		
		Other (as specified below)		

North York Moors National Park Planning Department Helmsley Attn Mr A Muir ref: NYM/2007/0859/FL/INV

gate design

buildings • interiors • space planning 48 Cleveland Street Shrewsbury SY2 5DN

Tel/Fax: 01743 357589

12th Nov 2007

Dear Mr Muir

Newbiggin High Farm Aislaby, Whitby Application for Siting of a wind turbine: NYMMPA

w. With regards wout letter at the 24.1 fel 2007 At our subsequent conversation we would agree to an adjustment of the position of the turbine in order to reduce its impact on passers-by on the adjacent high level unclassified road to Egton.

As suggested we can align it to be set against the large barns & other farm buildings which would form a na krolstrop from the coad approaching in the Sisteby direction. The current tree planting on the edge of the garden will mature to form a more substantial screen, blocking vision as people pass towards Egton. The re-positioning lowers the mast by approx 1.5 mtrs. I enclose further photographs to illustrate this & a revised plan.

In answer to the other items in your letter I list the points below:

- 1. Mr Thackray has £530.00 credit with the NYM Parks Authority from application NYM2006/0006, please deduct the fee from this balance.
- 2 & 5. Details enclosed
- 3. Copy of Bat Scoping report enclosed
- 4 & 6. The energy requirement is for new development. There is no live data of these consumption number payet. The objective is to reduce egerox imports onto site by 30-50% using a combination of insulation up-grades, heat exchange units & the turbine to power these units. The turbine is part of an integral approach to energy capture & use.

Thank you for your assistance.

Yours sincerely ::::

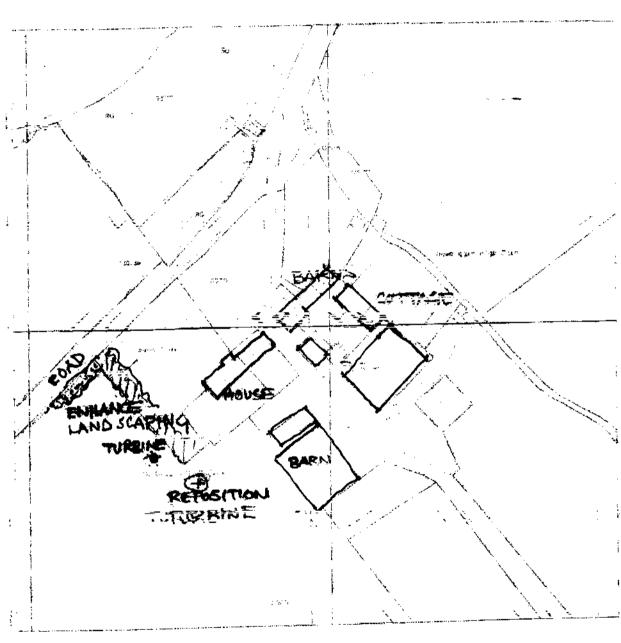
enc. Proven Technical spec sheet Location plan --- photo sheets ref -0708 P-1/2/3

w. mcCabe, director



-Sitepian 1:1250

0708.02



Y021 15X

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NEWBIGGIN HIGH TARM AISLABY.

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Above 12m/s or 25mph) blades twist to limit power in response to high rpm	2					
All machines steet, sieet & components	No. Public Company Com	2000 Process Organic (closed) 1800 **Third a pixel did a primate michiel 8 10 15 26 26	900 Person Ocean (Section) 1000 Person Ocean	16000 Paper or Control of Control (Minds) 16000 (Minds) 16		
WT MODEL	WT600 (0.6kW)	WT2500 (2.5kW)	WT6900 (6kW)	WT15000 (15kW)		
Cut In (m/s) ¹			2.5	<u></u>		
Cut Out m/s)			one!	<u></u>		
Survivate (a)			65			
Kaked (m/s)	<u> </u>	1.2				
Rotor Type						
No. of Blades		D. 1	Wood/Epoxy	Glass Polypropylene		
Blade Material	Polypropylene	Polypropylene	5.5	9		
Rotor	2.55	3.5	ر.ر			
Diameter(m)		P-vehlees Direct Dr	ive Permanent Magnet			
Generator Type						
"Battery charging"	72,72487487 DC	230Vac 50Hz or	230Vac 50Hz or	230Vac 50Hz or		
Grid connect with Windy Boy Inverter	230 Vac 50 Hz or 240 Vac 60 Hz	240 Vac 60Hz	240 Vac 60Hz	240 Vac 60Hz		
Direct Heating	n/a	120Vac or 240Vac	120Vac or 240Vac	120Vac or 240Vac		
Rated RPM	500	300	200	140		
Annual Output ²	900-1,500 kWh	2,500 - 5,000 kWh	6,000 - 12,000 kWh	15,000 - 30,000 kWI		
Head Weight (kg)	70	190	500	1100		
Mast Type	Tilt-up, tapered, self-supporting, no guy wires (Taller guyed towers also available on request)					
Hub Height (m)	5.5 or 12	6.5 or 11	9 or 15	13		
WT Found (m)	1x1x1 or 1.6x1.6x1	1.6x1.6x1 or 2.5x2.5x1	2.5x2.5x1 or 3x3x1.2	3.7x3.7x1,2 1.5x1.5x1.2		
Winch Found (m)	0,65x0.65x0.65	0.65x0.65x0.65 or 1x1x1	1x1x1 or 1.5x1.5x1			
Longs Merght.	1711/20 ac 050	241 2/ 4-55 115	JUJ 360 DE 656	1200		
· (kg)		<u> </u>	1	Yes		
Mechanical Brake	No	Yes	Yes	48 dBA		
	35 dBA	40 dBA	45 dBA 65 dBA	65 dBA		
Noise ³ @ 5m/s						
	55 dBA 2,5	60 dBA	10	26		

A dar dassing 20m away @ uppron 40 mid as whelfold A. E.

.................PA

15 NOV 2007

¹ metre/second = 2.24 miles per hour=3.6kph.
2 Based on an ideal site and average wind speed of 5m/s - please refere to our website at warm governors; when for further

information

3 All readings taken with an ATP SL-25 dBA meter at the base of the tower at a height of 1.5m.



Proposed unit for NEWBIGGIN HIGH FARM

BLACK ROTOR. MAST COLOUR TO BE AGREED.

1.5. NOV 2007

15 NOV 2007



Newbiggin High Farm -Aislaby,-Whithy Farm Development

Bat Scoping Assessment

January 2006

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ASKINARA

15 NOV 2007

STATUS	FINAL				
DATE	1 65	07/02/2000			
APPROVED BY		G.SKINNER			

1. INTRODUCTION

Background to development

The survey area is a farm site situated to the west of the village of Aislaby, approximately 2 miles North West of Whitby a grid reference NZ 839 077. The farm is situated in the valley on a south facing slope.

The herproperide was either interest in a conversion of various rammouts in into holiday accommodation, together with some work on the existing farmhouse.

Survey and site assessment

... Pra-existing information protected anesiar attached in

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15 NOV 2007

No information regarding bats in the locality was available at the time of survey.

Status of protected species in the local/regional area

- · Intentionally or deliberately kill, injure or take (capture) bats.
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection by a bat.
- intentiorfairy or recklessity disturb a bat while it is occupying a structure or place which it uses for that purpose.
 - Deliberately disturb bats (whether in a roost or not).
 - Keep, transport, sell or exchange, or offer for sale or exchange a live or dead bat or any part of a bat.

Objective(s) of survey

The objective of the survey was to:

- Assess the risk to bats using any part of the site as a roost.
- Ascertain if site is utilised by bats.

Survey area

The buildings were inspected internally and externally for signs of occupation by bats. The area surrounding the site was assessed for suitability for use by bats for roosting or foraging.

Habibatakanabatakan

The survey area is located to the west of the village of Aislaby, approximately 2 miles north west of Whitby at OS Grid Ref NZ 839 077.

The site comprises eight buildings situated to the east of the driveway, together with a farmhouse and attaché cottage situated to the west. The farm is approximately one mile to the west edge of Aislaby village; to the south, west and east the site is surrounded by pasture land, to the north is a hillside covered by mature trees and scrub. Hedgerows link the farm to the wider countryside, a hedge with mature trees runs east / west along the road to the north. The area provides foraging habitat for bats and the farm is connected to the wider countryside by linear commuting routes, such as the hedges leading to the east west and south.

2. METHODOLOGY

During two site inspections the survey team examined cracks, fissures, timber beams, gable ends and roof voids as far as was pactical. Searches were made for signs of feeding, urine stains, access point and of course old droppings.

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Limitations to this scoping exercise.

UK bats are insectivorous; therefore during the winter when few insects are available bats hibernate. During September and October prior to hibernation the bats gain weight, then as mean temperatures fall they locate roosts appropriate for over winding in order to conserve their floor reserves until the following March April. Any disturbance of bats during the hibernation period increases the amount of energy used with a subsequent reduction in food availability for over wintering. The figure below show the typical bat year.

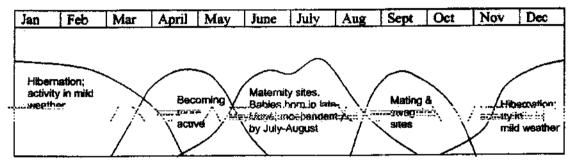


Figure 2 The bat year. Although there are species-specific differences, the bat year can be divided into the two major phases of breeding and hibernation, with other activities interspersed.

(Bat Mitigation Guidelines A. J. Mitchell-Jones 2004)

From the above it can be seen that it is extremely unlikely that bats would be observed in January when the site visit was undertaken. Therefore readers of this report should take this into consideration. During the visit observations were made for evidence of bats having been present within the buildings. Or ethats having been present within the buildings. Or ethats having been present within the buildings. Or ethats nation, dampness taken into account when compiling this report e.g. the building condition, dampness of walls, missing roof tiles, presence or absence of cob webs, concentrations or occasional bat droppings, moth and butterfly wings concentrations especially on gable walls etc.

3. RESULTS

Farmhouse.

From conversation with the owner we understand that the first phase of the proposed development is to be undertaken at the farm house. This consists of the removal of the roof section to the western end of the farm, including removal of the dormer windows to the north facing rear of the building and also removal of the velux style windows in the South facing roof. This is shown in the plan drawings of the farm showing the front and rear elevations.

The farm is constructed of sandstone blocks and is roofed by pan tiles with lead flashing where the tiles abut the building walls. The entire south facing roof has been

replaced (by previous owner), only the roof over the rear entrance / utility and the rear western section of the farmhouse appears original.

∃NPA

Initial inspection involved access to the incredios details bein lattices; gspibeares in extension to the original farm appears to have been re-roofed in the recent past. They appear in an excellent state of repair. There is some evidence of use by bats in both areas especially the farm extension (droppings & insect debris). The loft of the extension to the farm is a self-contained area and it is understand that no further development is planned for this area. There was no visible access from the farm extension into the attic space of the main farm building.

Inspection of the western section of the farm attic space shows that at some time this has been converted into living space with boards attached to the roof joists reaching up to the apex of the roof. Above the boards is lath and plaster with roof tiles above. Installation of the velux windows has made this a bright open area. There was no

The replacement of the roof on this section with the removal of the windows is anticipated by the owner to be the first stage of redevelopment. Details of future use of this area were not given, with the windows removed it would apparently revert to loft space.

As a result an early start date prior to the beginning of April would be advantageous in that there would be little or no likelihood of disturbance to roosting bats. Female bats would not have taken up their nursery roosts at this time and due to the temperatures maintained within the building the probabilities of hibernating bats being present is extremely remote.

Phase 2

The second phase of work involves renovation and conversion of the various stone outbuildings and removal / alteration of the "Dutch" barns. With regard to the dutch barns these structures do not offer roosting or hibernatory sites for bats due to their construction and materials. These facilities have been known to offer feeding areas for bats.

The main works planned are on the existing out buildings all of which are constructed ... of stone with tile roofs apart from the cattle barn. Starting from what is shown as the C-taille pain thrink plant marking in a clocking distribution marks. Its following observations.

Cattle Barn

·····Maille

Some evidence of use by bats single droppings found in two locations with no concentrations of droppings, therefore it is assumed that this area is used for feeding purposes. As with all buildings in this group the north facing wall is extremely wet due

to run off from the nearby land. The roof of this building is in need of urgent repair due to several missing tiles adjacent to the apex. Due to the concentrations of cob webs covering the roof, its beams and walls within this area there is little likelihood of roosting within this building. From this building there is access into the upper story of the first loose box.

Loose Box 1 15 NOV 2007

This section of the building is divided into an upper and lower story as stated access to the upper is gained from the mill the floor is riddled with woodworm and considered unsafe to walk on. Examination of this room was undertaken visually from the access point. Again this section of the building requires repairs to the roof due to missing tiles again along the apex. Walls were damp in particular the north facing walk-along the access contains an automatical access to the building is not used by bats.

Ground floor is a low ceiling room with an extremely damp and bulging north wall. Examination of all walls and floor failed to show evidence of use by bats.

Loose Box 2

This is the smallest of all the loose boxes and has a roof which is intact; the room is dryer than the others within this block. There is access via a door and also a high involved associations become an also a high suitable habitat for a bat roost. There was some evidence that bats had been present in the past, but the droppings found were in scattered locations on the floor, without specific concentrations. There was no evidence of roosting found within this part of the building.

Loose Box 3

Again with this loose box the roof is in need of urgent attention with gaps along the ridge line and missing tiles in various other locations. No bat droppings were found during examination of this room. Again the roof its beams and walls were heavily covered by cobwebs.

Loose Boxes 4, 5 & 6

These are situated to the East of the fold Yard. All are in a state of disrepair, numerous tiles are missing from the roof, walls, roofs and roof joists are all covered by largerge misstiffer of the business by bats was observed. One essection of the east wall was observed to be bulging on the external side and appears in need of urgent work to prevent further collapse.

15 NOV 2007.

4 CONCLUSIONS

Main Farmhouse

The main farmhouse does have evidence of regular bat use; proposed alterations to this building will have minor or no impact upon the use of this building by bats.

_...Qeebbuilding≘.

Most are to remain single story buildings with a loft space with the possible exception of the mill and loose box 1. Evidence of bats having been present was observed in the Mill and loose box 2 but without concentrations of droppings indicative of use as a maternity roost. We believe that north facing walls of the farm outbuildings would generally observed the trast-even mintering habitat with a temperature unautected by solar radiation. As previously stated the north facing walls of this complex were extremely damp due to surface run off from the surrounding hillside, making the walls unsuitable for hibernation.

Mitigation

Available habitat for bats to roost is constantly being eroded with the removal of old/diseased trees, barn conversions, house improvements and modifications. In the case of these premises sensitive conversion with care and the installation of access points and areas within the roof voids could provide numerous roosts facilities for most of the bat species to be found in the area. Due to the height of these buildings most of the bat species to be found in the area. Due to the height of these buildings with the second ridinal becated providing availd suitable for bats. The majority of the buildings would be retained as a single story. The Mill and Loose Box 1 being two stories could still retain a void in the upper portion of the roof above what is currently the access to the room above loose box 1 as shown in picture 9. With some planning the installation of suitable access points together with roosting areas the voids together with the loft spaces could be turned into various habitats suitable for utilisation by bats as nursery roosts. As the range of outbuildings has different aspects this would furnish bats with different temperatures dependant upon the weather. Maternity roosts are known to move from one area to another dependant upon the temperature found within the nursery.

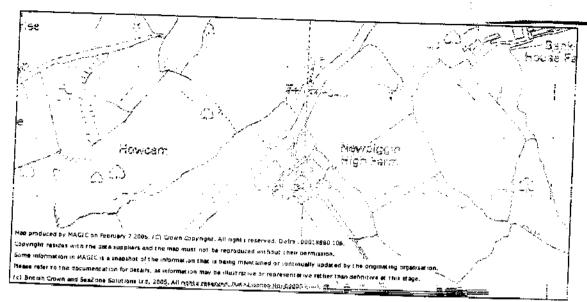
5 RECOMMENDATIONS

As no surveys were conducted during the typical period when bats are active April to end of October we recommend that extreme care is exercised during all work undertaken in order that disturbance is kept to a minimum. Advice should be given to contractors as to appropriate methods to be used during work, with particular attention to removal of the ridge tiles and where tiles and external walls meet. Consideration should be given as to having a licensed bat worker on site during such operations. Survey of all gaps and crevasses within the walls should be undertaken before pointing (where necessary with endoscopic searches).

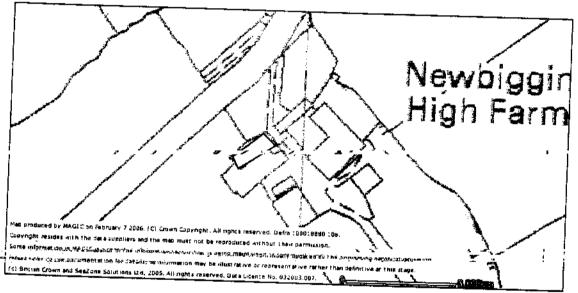
Although it is felt that disturbance is likely to be minimal and that the development is unlikely to have a detrimental impact upon the conservation status of bats in the area we recommend that a full survey is conducted in spring. A detailed Survey into the ususes of the farm to outbuildings and its surrounding landscape by bats during the time in which bats are most active (April September) which be best social.

At this stage it is felt that provided the developer works closely with the ecological team to ensure good practice and provided the recommended mitigation is undertaken then the development is likely to improve suitable conditions for bats.

6 MAPS



Map 1 location of farm



Map 2 features

Yellow block shows location of main farmhouse situature

Grey shaded areas are the development areas

8 REFERENCES

Altringham, J; 2003, British Bats, Harper Collins New Naturalist

Middlieb Mineral, A. H. & McEzish, A. P. (2004) The Bat Workers' Manual (3" Ed.).

JNCC, Peterborough.

Mitchell-Jones, (2004), Bat Mitigation Guidelines. English Nature, Peterborough.

__Rat.Conservation-Injec-Batterni-haid, BC?

Statutory Instrument 2000 No. 192; The Conservation (Natural Habitats &c.)
Regulations 1994 (as amended), HMSO

Wildlife and Countryside Act, 1981 (as amended), HMSO

NYMNPA 15 NOV 2007