FOUR COPIES REQUIRED

PLANNING APPLICATION

For office use only

Application No H05/0042/98

Date Registered 15 JAN 1998

Please complete in block letters

NAME AND ADDRESS OF APPLICANT

EAST MIDLANDS ELECTRICITY
GREAT NORTHERN ROAD
DERBY
DE1 1QF

Tel No 01332 226234

NAME AND ADDRESS OF AGENT

(if form completed by agent)

Tel. No.
Personal contact (if any)

FULL POSTAL ADDRESS OF THE APPLICATION SITE

LAND OFF JIGGLES GATE, GEDNEY FEN, NR HOLBEACH, LINCOLNSHIRE

Please provide a plan identifying the location of the site

DESCRIPTION OF PROPOSED DEVELOPMENT

NEW 132000/33000 VOLT SUBSTATION AND OVERHEAD LINE MODIFICATIONS

Please state the site's previous use

Please describe the building(s) and any works proposed, if any, including any change of use

S M Robb

Date 15 JANUARY 1998

Amount of £570

TYPE OF APPLICATION

For a change of use only, or change of use and building work, do you wish the application to be considered as a use falling within any particular Class in the Use Classes Order?

Yes

If yes, please state which Class

Does the proposal involve any of the following? If yes, you must submit details with the application.

Disposal of refuse

Land which is known or suspected to be contaminated

Effluent

Please complete Parts 3 and 5 and an Ownership Certificate

Please complete Part 4 only

Please complete Part 5 and an Ownership Certificate

Please complete Part 6 only

Please complete Part 7 only

Please complete Part 8 only

Please complete Part 9 only

Please complete Part 10 only

Please complete Part 11 only

Please complete Part 12 only

Please complete Part 13 only

Please complete Part 14 only

Please complete Part 15 only

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Please complete Part 98 only

Please complete Part 99 only

Please complete Part 100 only

OWNERSHIP CERTIFICATES

PLEASE COMPLETE ALL THREE SECTIONS

1 APPLICANT'S INTEREST

Please state if applicant is sole legal owner, joint owner, prospective purchaser etc.

PROSPECTIVE PURCHASER.

2 OWNERSHIP OF THE SITE

The purpose of this section is to make sure that the owners of land are aware of applications made on it.

If the applicant is the sole owner of the whole site complete **Certificate A**.
In any other case (ie if the applicant is a prospective purchaser, or a tenant, or a joint owner, or the sole owner of only part of the site) you must complete **Certificate B** and give notice to each person having a freehold interest or having a leasehold interest where seven years or more of the lease is unexpired. If you are unable to trace the owner, please contact the Planning Office as a different certificate will be required.

Certificate A I certify that, except as stated below, no person other than myself/the applicant was the owner of any part of the land to which the application relates at the beginning of the period of 21 days ending with the date of the application.

Signed: ..... (Applicant / Agent) Date: .....

Certificate B I/We certify that I/we have given the requisite notice to everyone else who was owner of any part of the land or agricultural holding to which the application relates at the beginning of the period of 21 days ending with the date of the application.

Name and address of owner or agricultural tenant to whom notice was given: Name: MRS I. M. HEWER
C/O GROUNDS & CO.
24 MARKET PLACE
MARCH

State Date notice served: 15 JANUARY 1998

Signed: J McRobbie (Applicant / Agent) Date: 15 JANUARY 1998

3 AGRICULTURAL HOLDINGS CERTIFICATE

If no land is used for agriculture use complete Certificate 1.
If land is wholly cultivated and farmed by the owner and there is no agricultural tenant, complete Certificate 2.
If any part does relate to an agricultural holding, you must give notice to the tenant, and complete Certificate 2. If you are the sole agricultural tenant yourself, sign certificate 2 but insert 'not applicable' in the tenant's name.

Certificate 1 I/We certify that no part of the land to which the application relates is or is part of any agricultural holding.

Signed: ..... (Applicant / Agent) Date: .....

Certificate 2 I/We hereby certify that I/we have given the requisite notice to every other person who, at the beginning of the period of 21 days ending with the date of the application, was a tenant of an agricultural holding all or part of which is comprised in the land to which the application relates.

Name and address of tenant to whom notice was served: Name: G. R. AMBROSE
WHEATSHEAF FARM
RAVENS CLOUGH
HOLBEACH
PE12 8SL

State Date notice served: 15 JANUARY 1998

Signed: J McRobbie (Applicant / Agent) Date: 15 JANUARY 1998

✓

✓

0·6

148 FOR CONTROL ROOM
29·5 (Transmission Tower)
64 (SUBSTATION BUILDING)
44 (SUBSTATION COMPOUND)
Brick, colour undetermined
Flat felt covered

Yes.

PASTURE

JIGGLES GATE, FENCE

✓ ✓

HARDSTANDING

✓

INTO EXISTING WATER COURSES

N/A

YES, SURFACE WATER WILL DRAIN INTO

✓

No
No
No
No
No

No

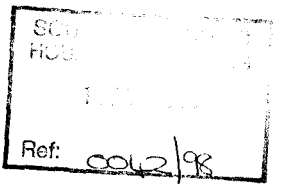
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PLANNING APPLICATION

by EAST MIDLANDS ELECTRICITY

to SOUTH HOLLAND DISTRICT COUNCIL

NEW 132 000/33 000 VOLT SUBSTATION, WITH MINOR OVERHEAD LINE MODIFICATIONS



AT

JIGGLES GATE
GEDNEY FEN
HOLBEACH
LINCOLNSHIRE

DATE 12TH JANUARY 1998

Introduction

East Midlands Electricity require full planning permission to install a new 132/33kV Grid Substation at Jiggles Gate, Gedney Fen, near Holbeach. The following document of application must be read in conjunction with the attached drawings. This application has been made following a brief meeting with SHDC on 9th December 1997, where the required content of such an application was agreed.

The drawings issued are subject to minor amendment following a detailed design process to be carried out by a Design and Build contractor yet to be appointed. Any such minor design changes will be submitted to SHDC for further approval.

Need

Due to the growth in the South East Lincolnshire area, a need for reinforcement of East Midlands Electricity's transmission and distribution system has been identified to ensure the the Company discharges its responsibility under its Public Electricity Supply Licence. This licence dictates levels of electricity system security, quality of supply and other regulated standards.

Currently within the South East Lincolnshire area there is little spare capacity to accept any future large consumers of electricity. The proposed new substation will overcome this constraint for the forseeable future. The sooner the site is established the sooner the benefits will be realised by existing and potential local electricity consumers.

The substation will take supplies from the existing 132 000 Volt overhead line that runs across the proposed plot, and transform its Voltage to connect into the existing 33 000Volt distribution systems in the Holbeach and Long Sutton areas.

The substation it not related in any way to the proposed recent power station developments at Sutton Bridge and Spalding.

Location-

The location selected is still subject to land purchase, but was chosen as it is located underneath the existing transmission line, thus reducing the number of new pylons required to a minimum (2 new pylons will be required, replacing 1 to be dismantled). The profile of the new substation will be lower than the existing transmission line.

Programme of Works

Due to the need for reinforcement of the local electricity network, it is planned for construction works to commence in the summer of 1998, and for the substation to be finally commissioned in the late spring of 1999. It is a requirement for the benefits of the new installation to be delivered to the customers as soon as possible.

Access to the Site

The proposed access to the site during construction and following commissioning shall be from Jiggles Gate as indicated on the enclosed drawings. The successful contractor will be responsible for maintaining all roads in a clean condition during their construction phase. It is proposed that discussions with the local highway authority will identify the best route into the area for any heavy loads.

Security

The installation shall contain live exposed conductors at 132 000Volts. These conductors shall be surrounded by a 2.4m palisade fence with conspicuous safety signs warning the public of the dangers within the compound all as required by the Electricity Supply Regulations 1988 (as amended).

The site shall be fitted with an intruder alarm, connected to a central control centre, manned 24 hours a day with access to field staff on call.

Landscaping

It is proposed to use excavated top-soil to form a bank at the south west boundary of the site to shield the adjacent farm from the substation. A planting scheme shall further break up the profile of the new substation.

Electric and Magnetic Fields

As the works associated with the new 132 000 Volt substation are contained within the area currently oversailed by the existing transmission line, it is unlikely that there will be any significant increase in the level of electric and magnetic fields. The latest statement issued by the National Radiological Protection Board in 1996 said that there was '... no convincing evidence that the electric and magnetic fields generated by overhead power lines or electrical apparatus are harmful to health. There is some epidemiological evidence for an association between exposure to electromagnetic fields and cancer but the studies do not establish that it is a cause. No biological mechanism has been established to indicate that electromagnetic fields can influence any of the accepted stages in the development of cancer.'

Lighting

Permanent security lighting will be provided by a low level fitting above the main building access door. This can be shielded if necessary to prevent it from being visible from local dwellings.

There will also be a site floodlighting system which shall be manually switched if the site compound is required to be visited during the hours of darkness for emergency works.

Drainage

Mr J T Elsey of South Holland Internal Drainage Board has been contacted regarding the works. It is proposed for the surface water to drain into existing water courses via an intercepter. The intercepter will form part of the site oil containment system.

The foul water shall be dispersed via a septic tank and spreader system.

Substation Office Building

The control/relay room building indicated on the plan of the works shall be brick built with a 'flat' felt covered roof. The colour of the bricks is yet to be confirmed.

Temporary Accommodation

During the construction works, it will be necessary for the contractors to erect temporary office and welfare accommodation for East Midlands Electricity and their own staff. This will be single storey accommodation to suit the contractors' works and include all provision for electricity, water and telephone services.

Copy to J Chapman 26/2

PLANNING APPLICATION-FLEET 132KV SUBSTATION

Noise analysis

The information below to be read in conjunction with planning drawing 95180.512 and 1:10 000 scale plan.

Assumption

Noise generated from Grid Transformers will not be greater than 65 dB(A) at 3m (this level is specified in EME Transformer specification).

Calculation

Formula for attenuation with distance $L_{Pr}=L_T-20\log(d_r/d_T)$

L_{Pr}=Sound level at a distance r

L_T=Sound level of Transformer

d_r=Distance at receiver

d_T=Distance of transformer reading

0042/98

The closest dwelling to the proposed site is Wheatsheaf Farm, which scaled from the planning drawings is 200m from the nearest transformer. The calculated noise due to this transformer would therefore be;-

$L_{Pr}=65-20\log 200/3=$**28.5dB(A)**

Allowing 5dB for tonal characteristics for the transformer noise and, I am advised, 3dB for the effect of the second transformer, the maximum expected nose level at Wheatsheaf Farm will be **36.5dB.**

From data collected during the day onfriday 17th November 1997, backgound noise levels were 40dB(A).

Other Factors

- As part of the site installation work, it is proposed to install a mound on the South West boundary between the substation and Wheatsheaf Farm to act both as visual screening and to reduce noise levels.
- The transformer plinths will be designed to accept a noise housing in the future if required, but EME intend not to install them as part of the planned installation.
- The first phase of the project will only involve the installation of one transformer (the one furthest from Wheatsheaf Farm i.e. 240m), the calculated noise due to this one transformer is 32dB (A) inclusive of 5dB for tonal characteristics. The installation of the second transformer is considered likely within 5-10years but is subject to load growth within the area.

Conclusion

Based on the calculations above, EME consider it unnecessary to install noise housings as part of the current design. EME would propose that a condition of the planning permission should include for a set of noise performance criteria at Wheatsheaf Farm. Should it be found that the noise generated exceeds the stated maximum, then further steps would be taken by EME which may involve the installation of a noise housing.

SMcRobie 23/2/98