Friday 3 rd November	 Meeting with Meath County Council Officials Meeting with IBEC EPA & Dept of Environment informed of project & communication plan by letter
Monday 6 th November	 Meeting with Meath Councillors Display panel & literature in Ardboyne Hotel, Navan* Press briefing 2 – 5pm to Local and National Media on 6th 7 Councillors and 1 journalist visited the displays Other media interviews given on the telephone 500 copies of the enclosed information leaflet distributed by our staff to all houses in the local environs – to date over 40 people returned business reply card requesting further information Information Pack delivered to all Meath T.D.s
Tuesday 7 th November	 Information Packs sent to Louth, Cavan and Monaghan County Council Officials Information Pack sent to Louth, Cavan and Monaghan TDs & Councillors Information Pack sent to other interested bodies in the region e.g. IFA, ICA, Chambers of Commerce and Political Parties
Week beginning 13 th November	 Information Leaflet distributed to 12,000 houses in the Drogheda area Local people were to contact us for more information – to date over 60 people returned business reply card requesting further information Letter to immediate neighbours with invitation to attend public meeting in

	 Boyne Valley Hotel, Drogheda. Attendance: 65 people - neighbours and other interested parties. Communications Register advised of Open day & adverts
Week beginning 20 th November	 All Meath Councillors and local media invited to Indaver Belgium – trip included visit to material recycling facility, compost facility and grate incinerator similar to that proposed for Carranstown. Group included six local Councillors and two local journalists – two other local journalists joined the group for the incinerator part of the visit. Public information days held in Duleek on 23rd & 24th November. Attendance: 30 people in total EPA, Dept of Environment, MCOS updated on communications programme to date. Communications Register advised of public meeting
Week beginning 27 th November	 Public information days in Drogheda on the 29th & 30th of November. Attendance: 20 people in total Public meeting in Drogheda. Attendance: 70 people – neighbours, local people from Drogheda and local politicians
Week beginning 4 th December	 Presentation to parents of children in local school on 5th December at request of the Board of Management. Attendance 60 parents. Public information days in Navan on the 6th & 7th of December. Attendance: 9 people in total.
Week beginning 11 th	All immediate neighbours invited to Indaver Belgium – trip includes visit

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December	to the grate incinerator, Beveren, similar to that proposed for Carranstown. Group included seven neighbours.
Week beginning 1 st January 2001	 A number of immediate neighbours and the Boyne Valley Trust invited to Indaver Belgium – trip includes visit to the grate incinerator, Beveren, similar to that proposed for Carranstown. Group included five neighbours and three people from the Boyne Valley Trust. Met with Flemish Waste Management Authority and Civil Servant involved with Waste Management in Beveren.
Week Beginning 15 th January 2001	Planning Application lodged with Meath County Council
Week Beginning 22 nd January 2001	 Copy of Non Technical Summary of EIS sent to all on Communications Register and anyone else enquiring for copy. Non Technical Summary and Planning Specification put on Website. Advert placed in local papers. Copy of advert sent to Communications Register. Plant model, safety features panel and literature put on display in Meath Co Co Office, Duleek.
Week Beginning 5 th February 2001	 Communications Register advised of further information provided on website and availability of Indaver Belgium Website in English

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Week Beginning 19 th February 2001	 LMFM, panel of 10, RTE Farm News and Ear to the Ground (RTE One) were taken on a trip to Belgium to visit a Material recycling facility, compost facility and grate incinerator similar to that proposed for Carranstown. Group included Louth & Meath Councillors, local residents, opposition group and waste collector. LMFM broadcast 'Loosetalk' live from Beveren site
Week beginning 26 th Feb 2001	 Letter with copy of Safety Features & Non-technical Summary sent to all Louth, Cavan and Monaghan Council Officials. Letter with WHO Publication on Waste Incineration sent to Louth & Meath Councillors. Please find a copy of the publication attached. Letter with Composting at home – a beginners guide and Household waste management guide sent to all Communications Register. Please find enclosed a copy of each guide.
Week beginning 12 th March 2001	 Anne Casey (Journalist with the Meath-Chronicle) brought to visit an Indaver Compost Facility, Material Recycling Facility and to view an Incinerator located in the densely populated area of Gwent. Meath Co Co requested additional information on the EIS.
Week Beginning 3 rd April 2001	 Communications Register & neighbours invited to put their name forward for possible inclusion on a Community Liaison Committee Meath & Louth Councillors invited to put their name forward for possible inclusion on a Community Liaison Committee EIS Consultees provided with update on project

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Week Beginning 16 th April 2001	Advertisement of Community Liaison Committee placed in local media
Week Beginning 14 th May 2001	 Advertisement promoting free availability of WHO guide placed in local media
Currently	Working on additional information requested by Meath County Council

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ATTACHMENT H

WIND SPEED AND DIRECTION DATA

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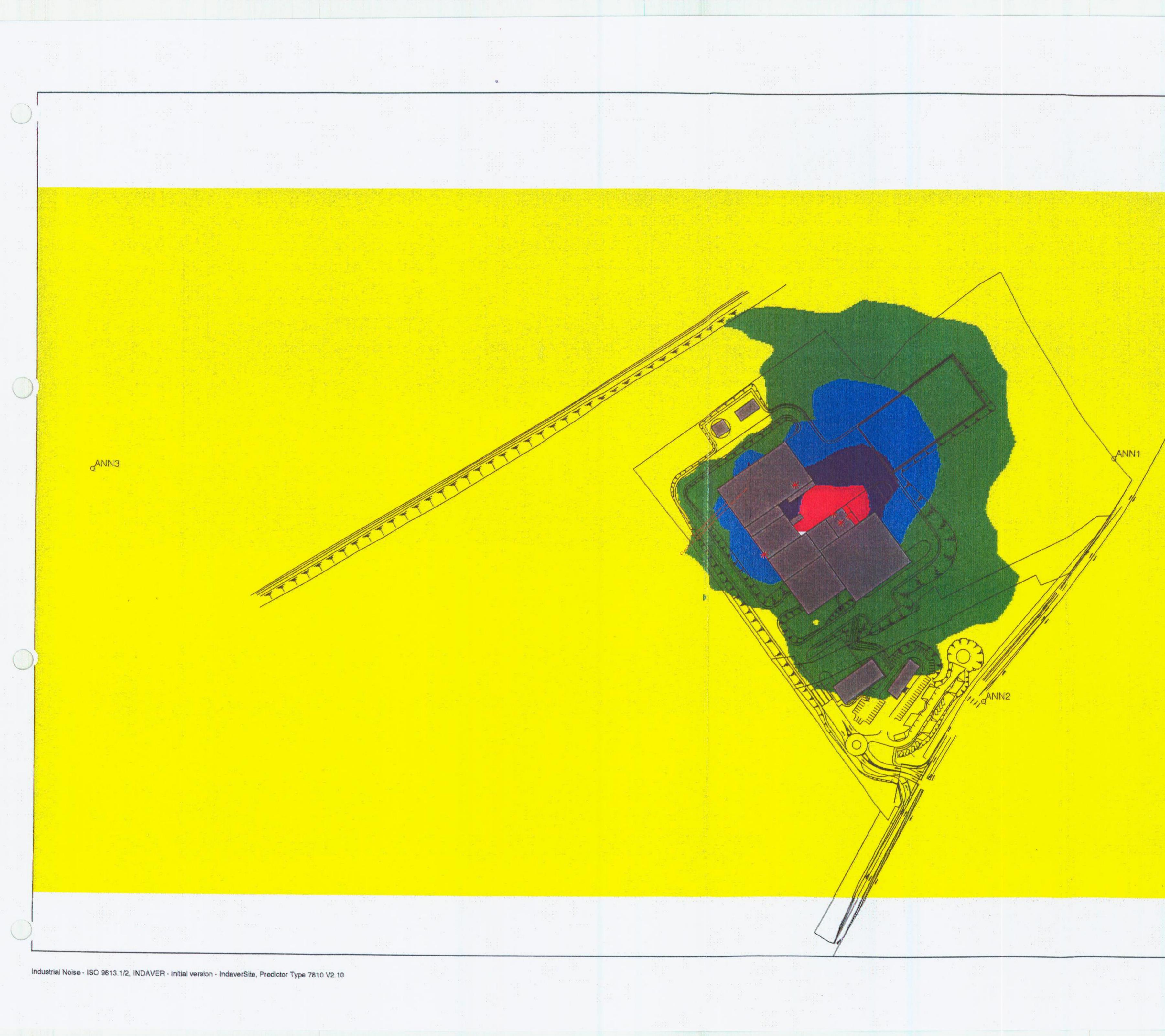
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ATTACHMENT

NOISE MODELLING REPORT

For inspection numores only any other use.



LEGEND Building Ground region 7////// Housing region 11///// Industrial site 11111 Foliage region * Point source Line source -----Receiver Ø Grid 1. Grid point . Surface contour -GPS calibration point -< 45 dB(A) 45 - 50 dB(A) 50 - 55 dB(A) 55 - 60 dB(A) 60 - 65 dB(A) 65 - 70 dB(A) > 70 dB(A) period: Day period IndaverSite 80 m $0 \, \text{m}$ and the second s scale = 1 : 3000 origin = 305550, 270500 EPA Export 25-07-2013:14:26



Document Lead Sheet

PM Project No:

002666-05

Document No:

002666-22-RP-007

WASTE MANAGEMENT FACILITY CARRANSTOWN

NOISE MODELLING REPORT

ISSUE	DATE	ORIG	AUTH CHK	REVIEW	APPRVD PM	APPRVD CLIENT	DESCRIPTION
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CONTENTS

1.	INTR	INTRODUCTION									
2.	NOIS	NOISE MODELLING									
	2.1	Noise Model	4								
	2.2	Brief Description of ISO 9613-2: 1996	4								
	2.3	Noise Model Input Data	5								
3.	NOIS	SE MODEL RESULTS	7								
4.	DISC	USSION	9								

ATTACHMENT 1

- Mc Sound Power Levels for Equipment Input To Noise Model (1 Page)

ATTACHMENT 2

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Contour Plot of Predicted Noise Levels

1. INTRODUCTION

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Indaver Ireland propose to construct a Waste Management Facility at Carranstown, Co. Meath.

Project Management Ltd. (PM) were requested by Indaver Ireland to carry out an assessment of external noise sources at the proposed Waste Management Facility and the contribution of these noise sources to noise levels on the site boundary and the closest noise sensitive receptors.

Modelling of the noise emissions from the principal external noise sources was carried out to predict noise levels at site boundary and noise sensitive locations. This report details the results of the noise modelling.

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2. NOISE MODELLING -

The purpose of the modelling was to assess the contribution of external noise sources at the proposed Waste Management Facility to noise levels on the boundary of the site and at noise sensitive locations close to the site.

2.1 Noise Model

The Bruel & Kjaer Predictor Type 7810, Version 2.10 software package was used to model the noise levels being emitted to the surrounding environment from the Toner building. Predictor Type 7810 is a proprietary noise calculation package for computing noise levels in the vicinity of industrial sites. Calculations are based on the International Standard ISO 9613-2: 1996 "Acoustics – Attenuation of Sound Outdoors – Part 2: General Method of Calculation." This method has the scope to take into account a range of factors affecting the attenuation of sound including:

- the magnitude of the noise source in terms of sound power;
- the distance between the source and the receiver;
- the presence of obstacles such as screens or barriers in the propagation path;
- the presence of reflecting surfaces;
- the hardness of the ground between the source and receiver;
- attenuation due to atmospheric adsorption;
- meteorological effects such as wind gradient, temperature gradient and humidity.

Calculations are performed in octave bands from 63 Hz to 8 kHz as well as in overall A-weighted decibels (dBA).

2.2 Brief Description of ISO 9613-2: 1996

ISO9613-2:1996 calculates the noise level based on each of the factors discussed above. However, the effect of meteorological conditions is significantly simplified by calculating the average downwind sound pressure level, $L_{AT}(DW)$, for the following conditions:

- Wind direction at an angle of ±45° to the direction connecting the centre of the specified receiver region with the wind blowing from source to receiver, and;
- Wind speed between approximately 1ms⁻¹ and 5ms⁻¹, measured at a height of 3m to 11m above the ground.

The equations and calculations also hold for average propagation under a well developed moderate ground based temperature inversion, such as commonly occurs on clear calm nights.

The average downwind sound pressure level from any point source at a receiver location, $L_{AT}(DW)$, is determined by calculating $L_{TT}(DW)$ which is the equivalent continuous downwind octave-sound pressure level at the receiver location. This is calculated for each point source, and its image sources, and for the eight octave bands with nominal midband frequencies from 63Hz to 8 kHz. The equation for calculating this parameter is given below:

$$L_{fT}(DW) = L_W + D_c - A$$

where:

- *L_w* is the octave band sound power level produced by the point source;
- D_c is the directivity correction for the point source;
- A is the octave band attenuation that occurs during propagation, namely attenuation due to geometric divergence, atmospheric absorption, ground effect, barriers and miscellaneous other effects.

The agreement between calculated and measured values of $L_{AT}(DW)$ support the estimated accuracy shown in Table 2.1.

Height, h*	es tor Distai	nce, d [†]
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	19 ⁵⁰
Table 2.1:	Estimated accuracy for broadband noise of LAT (DW)
	and a start of

* h is the mean height of the source and receiver.

† d is the mean distance between the source and receiver.

Note These estimates have been made from situations where there are no effects due to reflections or attenuation due to screening.

2.3 Noise Model Input Data

Indaver have previously carried out a noise source monitoring survey of equipment at one of their waste management facilities in Belgium. This involved octave band analysis measurements for a variety of equipment to determine sound power levels for the equipment. These sound power levels were used as input data to the model for the principal noise sources (equipment) at the Carranstown site. The equipment and associated sound power levels input to the model are detailed in Attachment 1. The location of the principal noise sources at the Carranstown site is shown on the noise contour plot in Attachment 2.

The input data for each noise source included:

- The source position (national grid co-ordinates)
- The source elevation (metres)

- Directivity
- Noise Emission The octave band analysis sound power levels determined for each source were A-weighted and input to the model. The model then calculates an overall sound power level (dBA) for each source. (In accordance with ISO 9613-2, the sound power levels at 31 Hz were not input into the model).
- Working Hours The model allows the user to define daytime and night-time periods, so that noise levels can be predicted for each period eg. Daytime / Night-time. For the purposes of this assessment, in order to predict the maximum possible noise levels, all of the noise sources were assumed to run continuously throughout a 24-hour period.
- Link Option Any proposed noise sources, in the form of louvres on building facades, were linked to their respective building which discards any reflection from the building surface.

The principal buildings on the site were all input in the model. Predicted noise levels are calculated for a set of receiver points, which can be chosen by the user. For this assessment, three locations were chosen as the receiver points for the model. These receiver points (ANN1, ANN2, ANN3) represent the closest noise sensitive receptors (dwellings) to the Carranstown site. The locations (national grid co-ordinates) and elevations (metres) of the receiver points (Noise Sensitive locations) were input to the model. The locations of the receiver points are shown on Noise level contour plot in Attachment 2.

The ground conditions between the noise sources and the receptor points were also included in the model. A background map of the Carranstown site was included in the model for reference purposes.

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3.

NOISE MODEL RESULTS

Table 3.1 details the predicted maximum noise levels (dBA) at the three closest noise sensitive locations due to the external noise sources at the Carranstown site.

Table 3.1: Predicted Noise Contribution (dBA) from the Carranstown site a	t
Noise Sensitive Locations	

Receiver Point	Predicted Noise Level (dBA)
ANN1 - House to north east at site boundary	41
ANN2 - Houses to south east across the road	42
ANN3 - House to west across railway embankment	28

The noise sources in the input data can be ranked in order of their contribution to noise levels at the chosen receiver points, and thus the noisiest sources at each receiver point can be identified. Tables 3.2 to 3.4 detail the four highest contributing noise sources at each of the three receiver points.

Table 3.2: Highest contributors to poise level at ANN1

Source Ref No.	Source Description	Predicted Noise Contribution (dBA)
S3 RO12	Air condensers above Turbine building	38
S15 RO12	Chimney	35
S1 RO12b	Louvre fan 2 Turbine building	31
S2 RO12	Turbine cooling	28

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Table 3.3: Highest contributors to noise level at ANN2

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Source Ref No.	Source Description	Predicted Noise Level (dBA)
S3 RO12	Air condensers above Turbine building	40
S15 RO12	Chimney	38
S1 RO12a	Louvre fan 1 Turbine building	20
S2 RO12	Turbine cooling	8

Source Ref No.	Source Description	Predicted Noise Level (dBA)
S15 RO12	Chimney	28
S19 RO12	Louvre grids compressor	16
S3 RO12	Air condensers above Turbine building	9
S1 RO12a	Louvre fan 1 Turbine building	5

Table 3.4: Highest contributors to noise level at ANN3

Noise level predictions can be made for a grid of receiver points and coloured iso-contours of the noise levels can be displayed to give an overall picture of the spatial distribution of noise levels within the grid. Figure 1 in Attachment 2 is a site plan of the Carranstown showing iso-contours of the predicted noise levels due to external noise sources at the waste management facility.

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4. DISCUSSION

The Environmental Protection Agency (EPA) Guidance Note for Noise in Relation to Scheduled Activities recommends that, during the daytime, noise levels at noise sensitive locations should be kept below an L_{Aeq T} value of 55 dBA, and at night-time, to avoid disturbance, the noise level at noise sensitive locations should not exceed an L_{Aeq T} value of 45 dBA. It also states that audible tones and impulsive noise at sensitive locations at night should be avoided, irrespective of the noise level.

The results of the noise modelling (Table 3.1), shows that the contribution of the combined external noise sources at the proposed waste management facility to noise levels at noise sensitive locations is relatively low and is below both daytime and night-time EPA recommended limit values. The contribution of individual noise sources (Tables 3.2 to 3.4) to noise levels at noise sensitive locations is also low. It is not anticipated that any of the equipment located at the proposed facility will have tonal or impulsive properties, and therefore there will not be any impulsive or tonal noise audible at noise sensitive locations.

The predicted noise levels are based on all of the identified external noise sources running simultaneously and continuously over a 24 hour period and therefore represents a worst case scenario. The actual contribution of external noise sources to noise levels at noise sensitive locations would probably be less than the predicted levels in Table 3.1.

In conclusion, the noise modelling demonstrates that the noise emissions from the external noise sources at the proposed waste management facility, will not cause the noise limits recommended by the EPA for noise sensitive locations to be exceeded.

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ATTACHMENT 1

SOUND POWER LEVELS FOR EQUIPMENT INPUT TO NOISE MODEL (1 PAGE)

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SOUND POWER LEVELS FOR EQUIPMENT INPUT TO NOISE MODEL

Source Description Ref. N		National Grid Elevation (m)			Octave Bands Hertz (Hz) Sound Power Levels (dBA) per band								
		Co-Ordinates		63	125	Sound 250	500	Leveis ((ава) ре 2К	er band 4K	8K	Total	
Louvre fan 1 Turbine building	S1 RO12a	306254.2, 270888.6	6.35	58.6	67.4	80.4	86.3	87.1	82.3	77.2	68.6	91.1	
Louvre fan 2 Turbine building	S1 RO12b	306268.0, 270886.3	6.35	58.6	67.4	80.4	86.3	87.1	82.3	77.2	68.6	91.1	
Turbine Cooling	S2 RO12	306266.6, 270892.3	1.5	66.8	71.9	78.4	85.5	82.9	80.0	75.7	67.9	89.0	
Air condensers above Turbine building	S3 RO12	306261.0, 270880.5	16.2	81.2	83.8	88.3	93.2	91.7	88.6	84.6	74.1	97.5	
Chimney	S15RO12	306220.7, 270914.0	32.75 ^{ft}	84.2	91.6	95.3	82.2	78.9	73.6	74.9	76.1	97.4	
Louvre grids Compressor	S19RO12	306194.0, 270742.4	upose edito.85	50.2	59.7	71.9	82.2	80.1	76.0	71.1	69.2	85.4	
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ATTACHMENT 2

CONTOUR PLOT OF NOISE LEVELS

<u>Drg No.</u>

TITLE

<u>REV.</u>

Figure 1

IsoContours of Noise Levels from Carranstown Site

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ATTACHMENT J

REVISED SITE NOTICE AND NEWSPAPER ADVERTISEMENT

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APPLICATION TO PLANNING AUTHORITY

In response to the request for further information by Meath County Council on the 14th of March 2001 in respect of application no. 01/4014. The site boundary has been altered to incorporate a deceleration lane, the entrance detail has been revised to remove the acceleration lane. These alterations can be seen on the revised Ordnance Survey map submitted along with all other responses to the further information requests in the revised EIS.

WE, INDAVER IRELAND

MAKE APPLICATION TO

MEATH COUNTY COUNCIL

For

Planning Permission to construct

A Waste Management Facility at Carranstown, Duleek, Co. Meath. The facility will consist of a Main Process Building of 13,480sqm incorporating a Waste Reception Hall, Waste Sorting Plant, Bunker, Operations/ Turbine Building, Boiler, Grate Furnace, Ash Bunker, Demineralisation Unit, Boiler Feed Pumps, Flue Gas Treatment Building Solidification Unit, AC Unit, Turbine Cooler and 40m High Stack. Ancillary structures will consist of a Pumphouse Building of 200sgm, Waterstorage Tank, Warehouse Building of 890sqm incorporating Security and Drivers Rest Area, Administration Building of 770sqm, Transformer Compound, Laydown Area, Carparks and an on Site Puraflo Effluent Treatment System? The facility will also include a Community Recycling Park incorporating a Security Building, container storage area and canopied area. Road access will be via a new entrance from the R152, approximately 3Km from Duleek and 4Km from Drogheda. An Environmental Impact statement is accompanying this application, which will be available together with any further information, submitted, at the offices of the Planning Authority, Meath County Council, Railway Street, Navan, Co. Meath. This application relates to an activity, which is subject to an IPC licence under Part IV of the Environmental Protection Act 1992 and a waste licence under Part V of the Waste Management Act, 1996.

THIS APPLICATION CAN BE INSPECTED DURING OFFICE HOURS AT

PLANNING DEPARTMENT, MEATH COUNTY COUNCIL, RAILWAY STREET, NAVAN, CO. MEATH



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Dated the 28th day of May

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2 Deds, Date 2015,

ATTACHMENT K

LETTERS FROM ESB REGARDING DIVERSION OF POWER LINES AROUND CARRANSTOWN SITE

Pection purposes only: any other use.



ESB NATIONAL GRID ELECTRICITY SUPPLY BOARD Lower Fitzwilliam Street, Dublin 2, Ireland.

Telephone: 01-6765831 / 6771821 Telefax: 01-6615375

Bord Soláthair an Leictreachais Sráid MacLiam Íochtair, Baile Átha Cliath 2, Éire.

Your ref:

Our ref:

Date: 4 MAY 2001 Copy to: MARIA G-LOUER. MICHAEL Action: HOYNE

5th April 2001

Ms Laura Burke Indaver Ireland Limited 4 Haddington Terrace Dun Laoghaire Co. Dublin

Dear Laura,

This note sets out the nature of ESB National Grid's discussions with Indaver Ireland Limited from April to June 2000.

In April of 2000, Indaver Ireland Limited had preliminary discussions with ESB National Grid regarding their proposed development near Platin, Co. Meath. The main focus of this discussion was the requirement to divert a 110kV overhead line that runs through the proposed development site. ESB National Grid agreed to undertake a preliminary study on the options to divert this line using ESB International as consultant. A Confidentiality Agreement was undertaken between ESB National Grid and Indaver Ireland Limited at this stage and as such ESB International were not informed of the developer's name.

In June of 2000, ESB National Grid reported back to Indaver Ireland Limited on the preliminary investigation into the diversion of the 110kV line passing through the proposed development site. The options presented were of a preliminary nature as the ESB were not in possession of detailed site layouts and no site surveys were carried out. It was pointed out at this stage that the position of buildings, cranes and chimneys would influence the feasible line diversion options.

There was no further contact between ESB National Grid and Indaver Ireland Limited on this matter until March 2001 when the issue of the Planning Application arose. In order to progress the diversion of the 110kV line I would ask that you contact us so that the options can be looked at in more detail and a decision made on the preferred option.

I trust the above is satisfactory, if you have any queries please feel free to give me a call.

Yours sincerely,

Simon Tweed Transmission Implementation Planning ESB National Grid



ELECTRICITY SUPPLY BOARD Lower Fitzwilliam Street, Dublin 2, Ireland.

Telephone: 01-6765831 / 6771821 Telefax: 01-6615375

Bord Soláthair an Leictreachais Sráid MacLiam Íochtair, Baile Átha Cliath 2, Éire.

Your ref:

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Our ref:

19 April 2000	Original to File No: Rec'd 00 2666 .21 . 0 100
Ms Laura Burke Indaver Ireland Limited 4 Haddington Terrace Dun Laoghaire Co. Dublin	Date: 4 MAY 2001 Copy to: <u>MARING GLOUER, MICHAEL</u> HOYNE
	ORK TO FILE

Dear Laura,

Please find enclosed two copies of the ESB National Grid Confidentiality Agreement. Please sign and witness both copies and return them to us for countersignature. We will then return one to you for your records.

In relation to the 110kV line diversion discussed at our meeting yesterday we will be in touch over the next week to discuss how to progress this issue.

I trust the above is satisfactory, if you have any queries please feel free to give me a call.

ofcop

Yours sincerely,

Fintan Slye — Manager, Transmission Implementation Planning ESB National Grid



ESB NATIONAL GRID ELECTRICITY SUPPLY BOARD Lower Fitzwilliam Street, Dublin 2, Ireland.

Telephone: 01-6765831 / 6771821 Telefax: 01-6615375

Bord Soláthair an Leictreachais Sráid MacLiam Íochtair, Baile Átha Cliath 2, Éire.

Your ref:

Our ref:

24th April 2001 Original to File No. 02666·2 Ms Laura Burke Indaver Ireland Limited Date: 4 MAY 2001 **4 Haddington Terrace** Dun Laoghaire Copy to: ARIA GLOUER. MICH iel hoyne Co. Dublin Action: ORIGTO

Dear Laura,

This note is to confirm the nature of the meeting between ESB and Indaver Ireland Limited on the 24th April 2001.

Representatives from ESB National Grid, ESB International, Indaver Ireland Limited and Project Management Limited met in ESB National Grid's office on the 24th April 2001 to discuss the diversion of the Finglas-Platin 110kV overhead line that runs across a site being developed by Indaver Ireland Limited.

The options under further consideration as a result of this meeting are:

- Diversion of the overhead line to the east of the site towards the railway line maintaining the line as overhead type construction.
- Replacing the overhead line with an underground cable and running around or through the site back to Platin 110kV substation.

In order to determine the best feasible option, further site investigation and consultation is required. ESB are currently progressing this work in co-operation with Indaver Ireland Limited.

I trust the above is satisfactory, if you have any queries please feel free to give me a call.

Yours sincerely,

Simon Tweed

Transmission Implementation Planning ESB National Grid

