Appendix K

Noise Assessment

Noise Impact Assessment – Resource Recovery and Recycling Facility (Rutherford, NSW)

January 2006

Transpacific Industries Pty Ltd



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Executive summary

Parsons Brinckerhoff (PB) was commissioned by Transpacific Industries Pty Ltd to undertake an environmental noise and vibration impact assessment for the proposed construction and operation of the Rutherford Waste Recovery and Recycling Facility.

The proposed plant incorporates green waste, liquid waste and waste oil processing and a vehicle servicing workshop. The facility would store, treat, recycle, recover and transport industrial wastes generated within the region.

Background noise levels for the area were assessed in accordance with current guidelines and standards. Existing local noise environs where characterised based on long-term (unattended) and short-term (attended) baseline noise levels measured at five noise monitoring locations. Monitoring locations are presented in Figure ES-1.

Operational noise criteria were established with reference to the NSW Industrial Noise Policy (INP). Sleep disturbance and construction noise planning goals were determined based on the methodologies presented in the Environmental Noise Control Manual (ENCM). Road traffic noise impacts were qualitatively assessed with reference to the Environmental Criteria for Road Traffic Noise document (ECRTN). A number of standards and guidelines were considered in the assessment of construction related vibration impact potential.

Noise criteria was established for the anticipated site construction works (L_{A10} level of 51 dB(A)). A L_{Aea} criterion of 46 dB(A) (day time), 45 dB(A) (evening) and 38 dB(A) (night time) were established for the operations of the proposed site. The noise criteria set down in this report are planning levels only. Factors such as social impacts (annoyance) and other environmental effects of the development need to be considered in regard to the approval process.

Indicative construction noise impacts were predicted using a simplified and conservative approach of calculating noise attenuation with distance. Indicative A-weighted sound power levels were adopted in the assessment of construction noise impacts.

During the construction phase, manual works would be primarily carried out. Construction noise sources would include hand tools and short-term movement of mobile sources throughout each daily period. Noise emissions from the construction works would be sporadic and intermittent, dependent on the activities conducted. Primary noise generating works were assumed to require less than a six month -construction period.

Worse case received noise levels of up to 50 dB(A) were reported. Typical mid-point received noise levels satisfied the construction noise design goal. Cumulative construction noise impacts were not assessed.

Noise controls and management practices were recommended for the construction works.

The NSW Department of Environment and Conservation recognised Environmental Noise Model (ENM) was used to assess the potential for operational noise impacts. The noise impact potential from the site was assessed at the adopted 16 reference locations provided on Figure ES-1.



Operational noise source data was adopted from existing data. One / one octave band data was adopted.

During peak operations, a worse case predicted noise level of 30 dB(A) (L_{Aeq}) was predicted for a residential receiver located to the south east with still isothermal conditions. With noise enhancing gradient wind flows, received noise levels up to 36.5 dB(A) (L_{Aeq}) were reported.

Boundary nose levels of less than 70 dB(A) (L_{Aeg}) are expected.

The established noise model predicted that the operations of the facility would meet the requirements of the Department of Environment and Conservations Industrial Noise Policy. Existing ambient noise profiles are not expected to be affected by the operations of the site. Under worse case conditions, the site is not expected to be audible throughout the local residential community during the day time, evening or night time periods.

No sleep disturbance, road traffic noise or vibration impacts are anticipated.

With reference to the recommendations of this report, no long-term degradation to the existing noise environs or loss of local acoustic amenity is expected form the operations of the proposed waste resource recovery and recycling facility. It is recommended that post-commissioning noise source validation measurements be carried out to verify the assumptions made, and subsequent conclusions provided, within this report.

It is expected that a performance based approach would be applied during the final design and construct stage of the site. Conceptually, the proposed site is not expected to result in future socioacoustic land use incompatibility.



Figure ES-1: Noise monitoring locations and potentially affected receivers



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1. Introduction

1.1 Background

This report has been prepared by Parsons Brinckerhoff (PB) on behalf of Transpacific Industries Pty Ltd (Transpacific) to assess the potential noise and vibration impacts of the proposed construction and operation of the Rutherford Waste Recovery and Recycling Facility. The study has been prepared for inclusion within the Environmental Impact Statement (EIS) being prepared by PB.

This assessment has been completed in accordance with the guidelines presented in, the *Industrial Noise Policy* (NSW DEC INP 2000), the *Environmental Noise Control Manual* (NSW DEC ENCM 1994) and the document *Environmental Criteria for Road Traffic Noise* (NSW DEC ECRTN 1999) and other relevant guidelines.

The study assessed the potential for noise and vibration impacts from the proposed construction works and operational activities. Short-term construction activities would be undertaken within the subject site. Operational noise emissions from the proposal have the potential to influence to impact a number of existing nearby residences.

1.2 Scope

The scope of works for this study was to prepare a noise and vibration impact assessment for the proposed construction and operations of the Rutherford Waste Recovery and Recycling Facility. This required completion of the following tasks:

- assess existing ambient noise environment in the study area
- establish reasonable and feasible noise design objectives and assessment criteria for the study area
- provide a detailed assessment of potential noise impacts associated with the proposal (operations, sleep disturbance, construction and road traffic noise)
- provide a qualitative assessment of potential vibration impacts associated with the proposal
- assess potential impacts against relevant legislation and guidelines
- provide a concise statement of potential noise and vibration impact
- develop noise and vibration impact mitigation measures.



2. Site description and proposal details

2.1 Site location and surrounding environs

The proposed waste resource recovery and recycling facility is located at Kyle Street, Rutherford. The site is approximately 10 hectares (25 acres) in size and has dimensions of 435 metres by 235 metres.

The proposed facility would be located within the existing industrial area, zoned 4(a) (General Industry) within the Maitland Local Environmental Plan. The township of Rutherford is 1,500 metres east of the site. A number of existing receivers are located to the north west, north east and east of the proposed site. The New England Highway lie approximately 250 metres to the north of the subject site.

The study area and nearest potentially affected receivers considered for operational noise impacts are shown in *Figure 2.1*. Identified noise catchment areas adopted within this assessment have been outlined in *Table 2.1*.

Table 2.1: Adopted noise catchment areas

Catchment	Distance	Bearing	Description
1	≈ 1,300 metres	north west	Receivers A and B
			Dent Street. Elevated receivers
2	≈ 1,000 metres	north west	Receivers C and D
			Located adjacent New England Highway
3	≈ 1,000 metres	south	Receivers E and F
			Isolated semi-rural allotments. Elevated receivers
4	≈ 1,000 metres	south east	Receivers G, H, I and J
			Rutherford South
5	≈ 1,100 metres	north east	Receivers K, L and M
			Rutherford South
6	≈ 1,000 metres	north	Receivers N, O and P
			Anambah

Noise catchment areas were identified and selected with consideration to existing land use(s) and noise sources influencing existing background noise levels.



2.2 Description of proposal

2.2.1 Overview

The proposed plant incorporates green waste, liquid waste and waste oil processing and a vehicle servicing workshop. The facility would store, treat, recycle, recover and transport industrial wastes generated within the region.

Potential noise and vibration impacts may be associated with both the construction and operational phases of the development.

2.2.2 Construction works

Where possible, components of the proposed development would be constructed and operated with existing site buildings and using existing infrastructure. Renovation of existing buildings and infrastructure would be undertaken. Demolition of existing site infrastructure, including a steel tank, existing waste water treatment facilities stormwater lagoon and an existing dwelling would be carried out.

Components of the facility that would increase the footprint of the development include hydrogenation process, oily water treatment, waste water treatment plant, truck parking, fuel bowsers, truck and tanker wash and tank farms for waste treatments.

Noise generating construction works (not including internal fit outs and associated) is expected to be completed in less than six months.

2.2.3 Operations

The waste resource recovery and recycling facility would incorporate the following treatment processes:

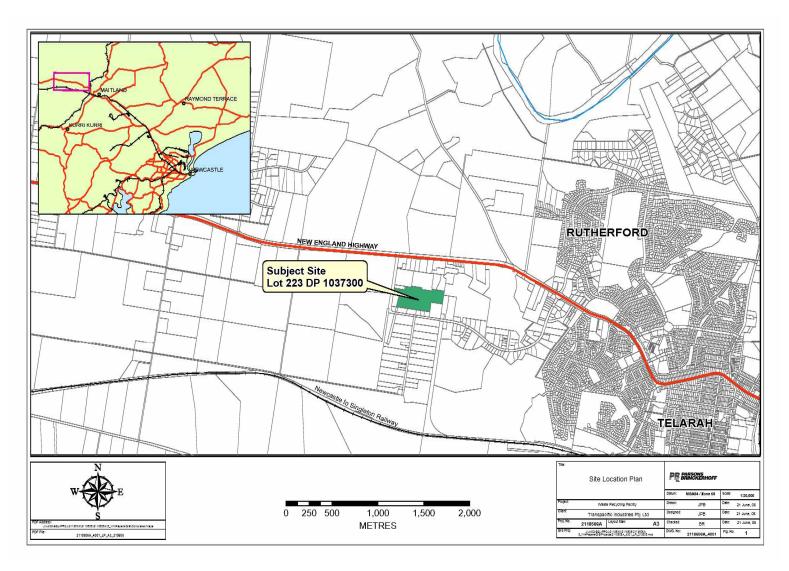
- oily water treatment and waste oil recovery
- treatment of non-sewerable aqueous wastes by neutralisation, chemical fixation, stabilisation and solidification (CFS)
- hydrogenation of re-refined base lube oils.

Each above process has the potential to influence the ambient noise environs for nearby receivers.

The proposed site layout, with each is process area identified, is provided as *Figure 2.2*.



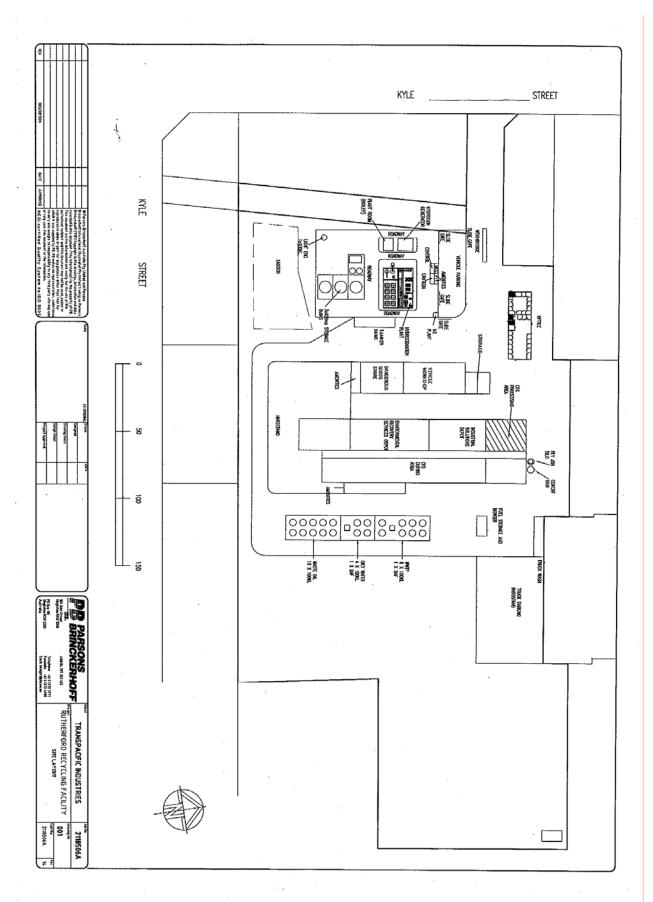
Figure 2.1: Study area location and surrounding landscapes



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Figure 2.2: Indicative site layout (process areas idientified)





3. Existing noise environment

3.1 Overview

This section of the report presents the results of ambient noise measurements carried out in the study area. The results have been used to characterise current ambient noise profiles and establish project-specific noise design objectives.

Noise monitoring was carried out for the assessment of the primary issue of environmental noise impacts. Detailed assessment of existing road traffic noise levels was not undertaken.

3.2 Noise monitoring methodology

Background noise measurements were carried out using a RION NA27 Precision Sound Level Meter (operator attended noise monitoring) and Acoustic Research Laboratories statistical environmental noise loggers, type EL-215 (long-term unattended noise monitoring). The instrument sets comply with AS 1259.

Instrument sets were calibrated by a NATA accredited laboratory within two years of the measurement period. Copies of the instrument set calibration certificates have been included with *Appendix A*.

Microphones were positioned at 1.2 metres above ground level and were fitted with windsocks. Each instrument was calibrated before and after the measurement period to ensure the reliability and accuracy of the results. No significant variances were noted.

The instruments were set on A-weighted fast response and logged noise levels over fifteen minute statistical intervals. Observations of source influencing the current ambient noise environment were made during logger placement and the attended noise monitoring intervals.

Long term monitoring was conducted between Friday 17/06/2005 and Monday 27/06/2005. Attended noise monitoring was carried out during the day on Monday 27/06/2005.

3.3 Measurement locations

Noise measurement locations were selected for each nominated noise catchment area (representative locations with the potential to be influenced by noise impacts for the proposal). The information obtained during the noise monitoring program provides an adequate characterisation of existing ambient noise profiles for the study area.

The noise monitoring reference locations have been presented in the local context as *Figure 3.1*. A description of the selected locations follows.



Table 3.1: Selected background noise monitoring locations

Location	Address	Form of Monitoring	Comments
1	9 Denton Close	Long Term	Elevated with respect to subject site.
		Day Time Attended	Suburban noise amenity. No constant day time industry observed. Road traffic noise present.
			Receiver elevated.
			\approx 1,300 metres north west of Transpacific site.
			\approx 350 metres from New England Highway.
			Environmental noise monitoring location.
2	96 Anambah Road	Long Term	Suburban noise setting. Nearby New England
		Day Time Attended	Highway audible. No day time industrial noise influence noted.
			\approx 1,000 metres north east of Transpacific site.
			\approx 900 metres from New England Highway.
			Environmental noise monitoring location.

3.4 Data exclusion

Hourly meteorological data was obtained from the nearest Bureau of Meteorology operated all-weather station to the noise monitoring locations (Paterson-Tocal AWS, #61250). Although not ideal, the use of this data is generally considered to be slightly conservative – and therefore acceptable.

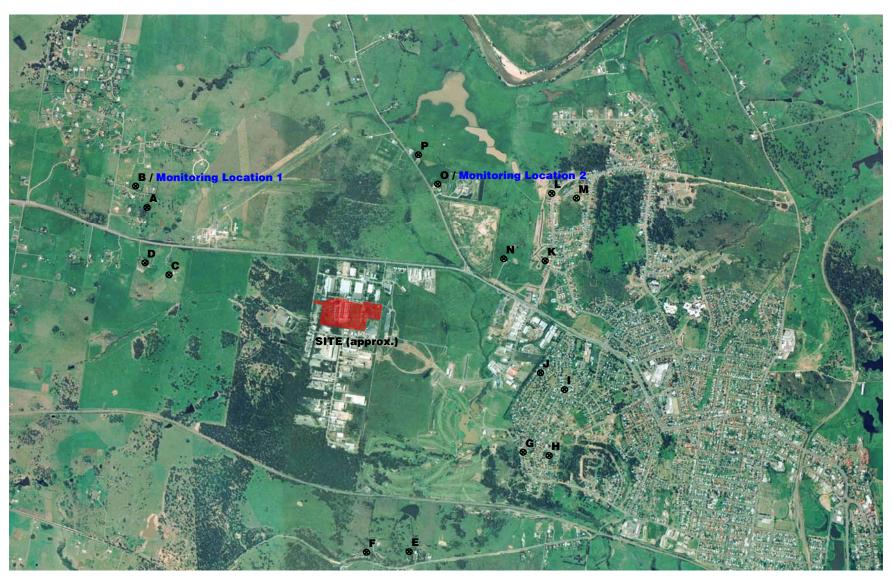
Data obtained from the unattended noise monitoring during periods of inclement weather conditions, such as wind speeds greater than five metres per second or during rainfall were not included in the analysis of unattended noise levels. Periods of noted anomalies were also excluded from the recorded unattended noise levels.

Approximately 55 percent of the noise measurements were excluded. Periods excluded from recorded noise levels are shown as shaded on the compiled daily noise logger graphs (*Appendix B*).

Given the amount of data excluded, a conservative approach has been applied to criterion establishment.



Figure 3.1: Monitoring locations and receivers considered





3.5 Measured background noise levels

3.5.1 Unattended noise monitoring

The results of the ambient noise monitoring program are presented in *Table 3.2*.

Table 3.2: Unattended noise monitoring results

Period	L _{A10}		L	-Aeq	L _{A90}	
Period	Average	Range	Median	Range	Median	Range
Location 1:	9 Denton (Close (north	west)			
ARL EL 215	noise logg	er [#] 194447				
Day Time (7am – 6pm)	54.5	52.5 – 57.5	55.0	52.0 – 56.5	44.0	38.5 – 49.0
Evening (6pm – 10pm)	51.5	48.5 – 55.5	50.5	45.5 – 53.0	41.5	38.0 – 45.5
Night Time (10pm – 7am)	49.0	45.5 – 53.5	47.0	42.5 – 53.5	35.0	28.5 – 42.5
Location 2:	96 Anamb	ah Road (nor	th east)			
ARL EL 215	noise logg	er [#] 194446				
Day Time (7am – 6pm)	55.5	50.5 – 61.0	57.0	55.0 – 64.5	41.0	32.0 – 47.0
Evening (6pm – 10pm)	52.0	46.5 – 66.0	54.5	51.0 – 64.0	40.5	34.0 – 47.0
Night Time (10pm – 7am)	50.0	44.0 – 62.0	51.5	46.5 – 63.5	34.0	29.0 – 45.0
Notes to Table 3.2:	tes to Table 3.2: Values expressed as dB(A) and rounded to nearest 0.5 dB(A) Range based on analysed daily levels					

 L_{A10} = Noise level 10% of time

 L_{Aeq} = Equivalent noise level (average)

L_{A90} = Noise level 90% of time (background)

The unattended noise monitoring was carried out continuously between the dates of Monday 17/06/2005 through to Thursday 27/06/2005.

The daily noise logger graphs compiled for unattended noise monitoring Locations 1 and 2 (*Appendix B*) were found to fluctuate throughout each daytime, evening and night-time period.

Background noise levels for the area are typical of a suburban or urban environment. Variations of 5 dB(A) to 10 dB(A) in the analysed day, evening and night time noise levels is noted (L_{Aeq} and L_{A90}).

A slight increase in measured noise levels was apparent between the hours of 06:00 – 22:00. This is likely to be the result of noise impacts associated with traffic movements along the New England Highway.



The measured L_{Aeq} and L_{A90} median noise levels varied between 10 dB(A) to 15 dB(A) for each period. The night time period shows the greatest difference between L_{Aeq} and L_{A90} levels indicating the sporadic nature of existing local noise environs. The difference observed can be largely attributed to the characteristics of local noise sources impacting the local ambient noise environment (such as fauna and traffic pass-by).

The median L_{Aeq} and L_{A90} values presented in *Table 3.2* were used to set the project-specific noise design goals (*Section 4*).

3.5.2 Attended noise monitoring

Attended noise monitoring was carried out at each noise monitoring locations during daytime hours. Meteorological conditions during the attended noise monitoring program were observed to be satisfactory for noise monitoring purposes with a slight northerly breeze, some cloud cover and a temperature of approximately 16 °C. *Table 3.3* presents the results of the attended noise monitoring.

Table 3.3: Operator attended noise monitoring results (27/06/05)

Location	Address	Time	Measured Noise Level		oise	Comment
			L _{A10}	L _{Aeq}	L _{A90}	-
1	9 Denton Close (north west)	13:05 – 13:20	53.5	51.0	46.0	No industry audible during monitoring interval New England Highway audible throughout, road transport trucks observed at 52 – 54 dB(A) at pass by Local fauna (birds) observed at 49 – 57 dB(A) S.S. ≈ 44 – 46 dB(A) minimal traffic S.S. ≈ 48 – 49 dB(A) standard traffic
2	96 Anambah Road (north)	13:35 – 13:50	55.0	52.5	42.5	No industry audible during monitoring interval New England Highway audible throughout, road transport trucks observed at 45 – 46 dB(A) at pass by S.S. ≈ 42 – 43 dB(A)
Notes to Table 3.3	3: Values expresse	d as dB(A) an	d rounded t	o nearest 0	.5 dB(A)]	
	S.S.: observed	steady state no	oise level			
	L _{A10} = Noise leve	el 10% of time				
	L _{Aeq} = Equivalen	t noise level (a	verage)			

Noise levels measured at each location were consistent during the day time attended noise monitoring period. Day time measurements for each descriptor were generally within 2 dB(A).

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 L_{A90} = Noise level 90% of time (background).



4. Adopted criteria and guidelines

4.1 Overview

The *Protection of the Environment Operations Act, 1997* (POEO Act) regulates noise generation and prohibits the generation of "offensive noise" as defined by the *POEO Act.*

In addition to the regulatory requirements under the *POEO Act*, NSW Department of Environment and Conservation provides guidelines in relation to acoustic criteria and noise controls.

4.2 Construction noise

Noise criteria for construction sites are established in accordance with Chapter 171 of the *Environmental Noise Control Manual* (NSW DEC ENCM, 1994). It is important to note that the recommended criteria are planning goals only. Numerous other factors need to be considered when assessing potential noise impacts from construction works such as the social worth of the activity, economic constraints, nature and duration of a proposed construction program.

The NSW Department of Environment and Conservation recognise that individuals accept higher perceived noise impacts for emission sources with a limited duration and identified end date.

Table 4.1: Acoustic design objectives for construction activities

Construction Period	Acoustic Design Objective
<4 weeks	Received $L_{A10} \le L_{A90}$ + 20 dB(A)
>4 weeks and <26 weeks	Received $L_{A10} \le L_{A90} + 10 \text{ dB(A)}$
>26 weeks	Received $L_{A10} \le L_{A90} + 5 \text{ dB(A)}$

Notes to Table 4.1: $L_{A10} = Noise level 10\% of time$

L_{A90} = Noise level 90% of time (background)

Although the final construction schedule and construction methods statements have not been determined at the writing of this document, construction activities and indicative time frames are expected to require between 4 weeks and 26 weeks.

The appropriate constriction criteria for the Transpacific site is likely to be the following:

Received $L_{A10} \leq L_{A90} + 10 \text{ dB(A)}$

Day time L_{A90} noise levels ranged from of 38.5 dB(A) – 49 dB(A), with a median of 44 dB(A) reported for Location 1. Day time L_{A90} noise levels at Location 2 ranged from of 32 dB(A) – 47 dB(A), with a median of 41 dB(A) reported for Location 2. The following resultant constructive noise design goals would therefore apply:

• 'medium term' construction work: **51 dB(A)** [L_{A10} impacts], L_{A90, median} + 10 dB(A).



Construction works with the potential to generate noise impacts would be undertaken during the day time period only (7am – 6pm, weekdays, 7am – 1pm Saturdays and no work on Sundays or public holidays).

4.3 Operational noise

Noise emissions from the operations of the site would require adherence to the NSW *Industrial Noise Policy* (NSW DEC INP, 2000).

The policy sets out two criteria that are used to assess potential off-site noise impacts. The first criterion aims at controlling intrusive short-term noise impacts for residences (intrusive criterion). The second criterion aims at maintaining the long-term amenity of particular land uses (amenity criterion). The more conservative of the two limits are established as project-specific operational noise goals.

The relevant intrusive criterion can be summarised as follows:

L_{Aeq (15 min)} ≤ rating background levels + 5 dB(A)

The amenity criterion is determined based on guidelines presented in the INP. The acceptable amenity limits for a rural area are listed in *Table 4.2*.

Table 4.2: NSW INP amenity criteria – suburban setting

Type of Receptor	Period of day/ day of week	Acceptable Noise Level
		(L_{Aeq})
Residential-Day-Time interval	7am – 6pm, Monday to Saturday	55 dB(A)
	8am – 6pm, Sundays and Public Holidays	
Residential-Evening interval	6pm – 10pm	45 dB(A)
Residential-Night-Time interval	remaining periods	40 dB(A)
Commercial Premises	when in use	65 dB(A)
Industrial Premises	when in use	70 dB(A)

Notes to Table 4.2:

 L_{Aeq} = Equivalent noise level (average)

Source Table 2.1 NSW DEC INP

Amenity criterion is established with reference made to the L_{Aeq} noise levels for the area and the existing industrial noise influence. The amenity criterion is then corrected with reference being made to Table 2.2 of the INP.

No industrial noise influence was noted for the setting. Referencing the attended noise monitoring results, the existing industrial noise influence can be conservatively set at less than 36 dB(A) (Location 1 attended L_{A90} of 46 dB(A) – 10 dB(A)). Therefore, NSW DEC recommended acceptable night time noise levels have been modified (to account for the existing level of stationary industrial noise).



Based on the existing noise environs, amenity limits consistent with the NSW DECs recommended acceptable noise levels would apply:

Day Time Amenity Noise Limit (7am – 6pm):
 55 dB(A) [L_{Aeq, day}]

■ Evening Time Amenity Noise Limit (6pm – 10pm): 45 dB(A) [L_{Aeq, evening}]

Night Time Amenity Noise Limit (10pm – 7am):
 38 dB(A) [L_{Aeq, night}].

Referencing the RBL (L_{A90}) values measured at Location 2 during the unattended noise monitoring program and the formula to assess the intrusive noise criterion, the following intrusive noise limits would apply:

Day Time Intrusive Noise Limit (7am – 6pm):
 46 dB(A) [L_{Aeq, 15 min}]

Evening Time Intrusive Noise Limit (6pm – 10pm): 45 dB(A) [L_{Aeq, 15 min}]

Night Time Intrusive Noise Limit (10pm – 7am):
 39 dB(A) [L_{Aeq, 15 min}].

The day time and evening intrusive noise criterion is more stringent and would therefore govern. Amenity limits would likely apply during the night time period. The values assume there would be no annoying characteristics associated with site-related operational noise impacts.

Boundary noise limits should not exceed a level of **70 dB(A)** [$L_{Aeq, 15 min}$]. Compliance with the adopted design goals would maintain the acoustic amenity for the area.

The established operational noise design objectives are consistent with the requirements of the NSW INP. The noise limits have been established to minimise the potential for degradation to local ambient noise levels.

4.4 Sleep disturbance

The emission of peak noise levels for an instant or very short time period may cause sleep disturbance to residents. In accordance with the *Environmental Noise Control Manual* (NSW DEC ENCM, 1994), the L_{A1} level of any specific noise source should not exceed the background noise level (L_{A90}) by more than 15 dB(A) when measured outside the bedroom window of the nearest potentially affected receptor.

A night time L_{A90} noise level of 34 dB(A) was measured at Location 2. Adopting this level provides a sleep disturbance criterion of **49 dB(A)** [L_{A1} impacts].

4.5 Road traffic noise

Road traffic noise criteria have been established for the project. It is considered the primary road traffic noise generating activities would be associated with the proposed construction program. Criterion establishment is generally applied for long-term planning purposes only.



The *Environmental Criteria for Road Traffic Noise* (NSW DEC ECRTN, 1999) recommended 'base' and 'allowance' criteria.

The recommended 'base' criteria for land use developments with the potential to create additional traffic on existing freeways / arterials are day time $L_{Aeq, 15hr}$ levels of **60 dB(A)** and night time $L_{Aeq, 9hr}$ levels of **55 dB(A)**.

The recommended 'base' criteria for land use developments with the potential to create additional traffic on existing collector roads are day time $L_{Aeq, 1hr}$ levels of **60 dB(A)** and night time $L_{Aeq, 1hr}$ levels of **55 dB(A)**.

The 'allowance' criteria is generally established where the 'base' criteria are already exceeded. In such circumstances, traffic arising from a development should not lead to an increase in existing noise levels of more than 2 dB. The base criterion is unlikely to be exceeded in the study area, and therefore the allowance criteria would not apply.

4.6 Vibration

In establishing vibration limits (particularly for the construction works), it is common practice to set vibration limits to protect buildings against damage in accordance with German Standard DIN 4150-3 1999 *Structural Vibration Part 3 Effects of Vibration on Structures*. Typical vibration limits for building damage are as follows:

residences: 10 millimetres per second

heritage buildings and sensitive structures:3 millimetres per second.

The criteria outlined to protect occupants of buildings from discomfort are more stringent. A number of British, German and Australian standards have been referenced with respect to protecting amenity including: ENCM (Chapter 174); AS 2670 Evaluation of Human Exposure to Whole-body Vibration; BS 6472 1992 Evaluation of Human Exposure to Vibration in Buildings (1 Hz to 80 Hz); BS 7385 1990 Evaluation and Measurement for Vibration in Buildings; and DIN 4150-3 1999 Structural Vibration Part 3 Effects of Vibration on Structures. Vertical (as opposed to horizontal) limits would be established consistent with the following:

residential levels (night time): 0.14 - 0.2 millimetres per second

residential levels (day time):0.28 - 0.56 millimetres per second.

The 'comfort' limits vary across the frequency spectrum, although they are generally a constant level across the frequency range generated by most construction activities.



5. Predicted impact profiles

5.1 Construction noise

Calculations were undertaken to investigate the impact of the primary noise sources during their operation. Sound power levels were drawn from existing data to represent the expected construction and equipment noise sources.

Construction noise sources would include, but not be limited to, the itemised equipment presented in *Table 5.1*.

Table 5.1: Typical sound power levels for construction equipment

Construction Phase	Equipment Type	A-weighted Range	Adopted L _{A10}		
Preparatory Works	Excavator	108 – 118 dB(A)	112 dB(A)		
	Grader	114 - 120 dB(A)	117 dB(A)		
	Backhoe	100 - 108 dB(A)	103 dB(A)		
	Concrete Supply Truck (24t)	107 – 116 dB(A)	110 dB(A)		
	Crane (10t, lorry mounted)	118 - 120 dB(A)	118 dB(A)		
Installation / Fit Out	Hand held tools	94 - 118 dB(A)	105 dB(A)		
	Semi-Trailers (10t / 20t)	103 - 120 dB(A)	108 dB(A)		

It is recommended that the above sound power levels are validated during the initial stages of the construction program. Assessment of annoying characteristics would also be required.

Predictions were carried out for the proposed peak noise generating activities. The requirement for plant and equipment would depend on the stage of construction. It is unlikely that all plant listed would be on site at any given time.

Noise emissions from the construction works would be sporadic and intermittent, depending on the activities conducted. Significant variations in noise emission potential would be present throughout each daily period. Received noise levels would likely be lower than predicted for the majority of the time.

To provide a conservative construction noise impact assessment, acoustic shielding due to natural topography and intervening structures was not included in the calculation of potential noise levels at nearby receivers. Atmospheric absorption values were not considered in the calculations. Noise enhancing meteorological conditions were not assessed due to the temporary nature of the construction works.

Potential noise impacts from each nominated source have been considered. Based on the intermittent nature of noise emissions, cumulative impacts have not been assessed in detail as part of this study.



The distance attenuation was calculated by assuming unidirectional hemispherical propagation. Indicative calculations of received noise levels from each nominated source are outlined in *Table 5.2*.

 Table 5.2:
 Predicted construction noise impacts (indicative values)

		Received Noise Level (dB(A))											
		Noise Catchment											
Noise Source	SWL	1 - NW	2 - NW	3 - S	4 - SE	5 - NE	6 - NE						
				Rec	eiver								
		A, B	C, D	E, F	G, H, I, J	K, L, M	N, O, P						
Preparatory Works													
Excavator	112	40	42	43	43	42	44						
Graders	117	45	47	48	48	47	49						
Backhoes	103	31	33	34	34	33	35						
Concrete Supply Truck (24t)	110	38	40	41	41	40	42						
Crane	118												
(10t, lorry mounted)		46	48	49	49	48	50						
Installation / Fit Out													
Hand held tools	105	33	35	36	36	35	37						
Semi-Trailers (10t / 20t)	108	36	38	39	39	38	40						
Anticipated Range of Impa	cts	31 - 46	33 - 48	34 - 49	34 - 49	33 - 48	35 - 50						
Typical Mid-Point		38	40	41	41	40	42						
Impact Potential – Preparatory	Works												
Adopted Day Time Planing GoadB(A) $[L_{A10}]$	l = 51	Low	Moderate	Moderate	Moderate	Moderate	Moderate						
Impact Potential - Installation	/ Fit Out												
Adopted Day Time Planing GoadB(A) $[L_{A10}]$	I = 51	Low	Low	Low	Low	Low	Low						

During the construction phase, works would be primarily manual. Construction noise emissions would include the use of hand tools and short term movements of mobile sources throughout the site.

Noise emissions from the construction works would be sporadic and intermittent, and would depend on the activities conducted. Significant variations in noise emissions may be present throughout each daily period.

Exceedances of the recommended L_{A10} construction noise planning goal of 51 dB(A) may occur for the closest residential receivers without suitable noise control measures or construction management practices. Note that no allowance for ground effects, topographical shielding or atmospheric absorption has been made in the above calculations. Considering these items may slightly reduce the reported range of noise impacts, the resultant construction noise impact potential (and recommendations made) would remain consistent however.



5.2 Operational noise

5.2.1 Model inputs

A noise propagation model was established in the assessment of potential operational noise impacts from the proposed Waste Resource Recovery and Recycling Facility. Noise modelling was undertaken through the use of the ENM Noise Prediction Software (Version 3.06). The modelling was based on the following:

- linear weighted 1/1 octave band noise source data [L_{Aeq}]
- topographical contours (approximate 3,500 metres x 2,000 metres at 10 metre intervals) for local area
- mobile source heights of 1.5 metre
- rural land use category
- ground type consistent with grass / rough pasture
- predictions presented for ground level receivers (reduced level + 1.2 metres)
- indicative source locations based on site layout presented as *Figure 2.1*.

5.2.2 Modelling techniques and scenarios

Noise modelling scenarios were developed based on anticipated 'peak' site operating conditions. Constant noise emissions from the adopted site sources were assumed. Noise modelling was carried out for L_{Aeq} (operational) noise emissions in accordance with the NSW INP.

Scenarios considered, and source sound power levels adopted (SWLs) have been outlined in *Table 5.3*.

Operational noise modelling was carried out for the following atmospheric conditions:

- condition A: still isothermal conditions, temperature 25°C, relative humidity 50 percent
- condition B: 3 metres per second south easterly wind at 10 metres metres above ground level, temperature 25°C, relative humidity 50 percent
 - potential increase in site noise impacts to noise catchment 1 (receivers A, B) and noise catchment 2 (receivers C, D)
- condition C: 3 metres per second northerly wind at 10 metres metres above ground level, temperature 25°C, relative humidity 50 percent
 - potential increase in site noise impacts to noise catchment 3 (receivers E, F)
- condition D: 3 metres per second westerly wind at 10 metres metres above ground level, temperature 25°C, relative humidity 50 percent

potential increase in site noise impacts to noise catchment 4 (receivers G, H, I, J)



- condition E: 3 metres per second south westerly wind at 10 metres above ground level, temperature 25°C, relative humidity 50 percent
 - potential increase in site noise impacts to noise catchment 5 (receivers K, L, M) and noise catchment 6 (receivers N, O, P)
- condition F: 3°C per 100 metre radiative temperature inversion, temperature 10°C, relative humidity 25 percent

potential increase in site noise impacts to all noise catchments.

Drainage flows, being wind movement 'down hill', were not considered in the noise predictions because selected receivers are generally not located down gradient of the site.

Table 5.3: Noise propagation modelling scenarios considered

Scenario	Process	Source(s)	SWL (dB(A)) L _{Aeq}
		road transport truck manoeuvring	106
A-1	oily water treatment and	tanker unload	106
A-1	waste oil recovery	wash press / screen conveyors	79.5
		transfer pump x 3	70.5
		dehydrator – internal	not assessed
		compressor – internal	88.5
A-2	hydrogenation of re-refined base lube oils	boiler – internal	95.5
	base lube oils	boiler pump – internal	93 ^x
		flare stack (assumed)	100 ^x
		backhoe – internal	102 ^x
		FEL – internal	105
	treatment of non-sewerable	conveyor belt / motor - internal x 6	84.5
	aqueous wastes by	road transport truck manoeuvring	106
A-3	neutralisation, chemical	road transport truck reversing	96.5
	fixation, stabilisation and	dust collector / fan	107
	solidification (CFS)	forklift	98
		aggregate unload	109
		silo vent x 2	87

Notes to Table 5.3:

X – even distribution of 1/1 octave band data (equivalent summation to reported SWL) assumed

The adopted source data is considered suitable for this noise impact assessment. All additional plant items and processes within the proposed site would likely be insignificant and not contribute to noise emissions from the site.

Of the sources presented in *Table 5.3*, the external stationary and mobile sources were considered to have the greatest potential to influence the off-site ambient noise environment.

Post commissioning source validation measurements would be used to verify the assumed data.



Note on Internal Noise Sources

Where internal sources have been considered, an insertion loss of 10 dB(A) from the structure façade has been conservatively assumed. The attenuation achieved from building facades could be expected in the order of 15 dB(A) to 20 dB(A).

Note on Flare Stack Noise Emissions

When compared to other site emissions, noise from the flare is not expected to be a primary noise source for the site. Further, high pressure flaring is not expected.

The adopted sound power level is higher than anticipated and would be confirmed through monitoring after commissioning. If the adopted sound power level exceeds the adopted specification, then mitigation would be considered.

5.2.3 Modelled operational noise impact

Predicted point-to-point noise levels for each identified receiver are provided in *Table 5.4.*

The operational noise criteria were achieved at each location under each scenario. The proposed facility is expected to be inaudible in the surrounding residential areas for all periods of the day.

A sample ENM source ranking file, and ENM output file, has been included as *Appendix C* and *Appendix D* respectively.

Examination of the ENM ranking file and output files indicated which sources are the primary contributors to the predicted levels. These sources and their relative contributions are identified in *Table 5.5*.

The treatment of non-sewerable aqueous wastes by neutralisation and chemical fixation, stabilisation and solidification (CFS) were key sources for the site.

The movement of mobile sources throughout the site were noted to be the primary contributor to potential off-site noise impacts.

To aid in the assessment of results, a noise contour impact isopleth has been prepared for Scenario A (all sources, still isothermal conditions) and is presented as *Figure 5.1*. The contour plot has been provided to aid visual interpretation only.



Table 5.4: Predicted operational noise impacts (all operations)

	Received Noise Level (dB(A))															
	Noise Catchment															
Meteorological Condition	1 - NW		2 – NW		3 · S		4 - SE			5 - NE			6 - NE			
	Receiver															
	A	В	С	D	E	F	G	н	ı	J	K	L	М	N	0	P
A – neutral	28	26.5	23.5	22	24.5	23	19.5	26	22.5	20	20.5	19.5	23	25.5	24	21
B – 3 m/s SEly	34.5	36.5	28	26.5	21	19	16	22.5	19.5	16.5	18.5	18	21.5	26	28	23
C – 3 m/s Nly	26.5	24	22	21	33	32	24	30	24.5	22	19.5	18	21.5	22	20	16.5
D – 3 m/s Wly	25.5	23	19.5	18.5	28	28	26.5	32.5	31.5	30	27.5	26	30.5	29	26.5	21
E – 3 m/s SWly	27.5	25	22	20	22	21.5	21	27	26.5	24.5	26.5	26.5	31	33	31	24
F – Inversion	30.5	32.5	25.5	24	30	28.5	22.5	29	25.5	23.5	23	22	26	28	27.5	22.5
Criteria																
- Day Time 46 dB(A)	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	✓
- Evening 45 dB(A)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
- Night Time 38 dB(A)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes to Table 5.4: L_{Aeq} levels presented

values rounded to nearest 0.5 dB(A)

✓ - criterion satisfied

X - potential exceedance

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Table 5.5: Primary noise sources (neutral conditions)

	Received Noise Level (dB(A))															
Scenario -	Noise Catchment															
	1 - NW		2 – NW		3 - S		4 - SE			5 - NE			6 - NE			
	Receiver										,					
	A	В	С	D	E	F	G	н	I	J	K	L	М	N	0	P
A-1																
oily water treatment and waste oil recovery	<10	<10	10.5	<10	20.5	19.5	15	18.5	18	15.5	15	14	17	21	19	15.5
A-2																
hydrogenation of re-refined base lube oils	14.5	10.5	17.5	15.5	10.5	10	12	12.5	12	12.5	11.5	10.5	<10	12	12.5	<10
A-3																
treatment of non-sewerable aqueous wastes by neutralisation, chemical fixation, stabilisation and solidification (CFS)	28	26.5	22	21	22.5	20	16.5	24.5	20.5	17.5	18.5	17.5	21.5	23	22	19
Σ	28	26.5	23.5	22	24.5	23	19.5	26	22.5	20	20.5	19.5	23	25.5	24	21

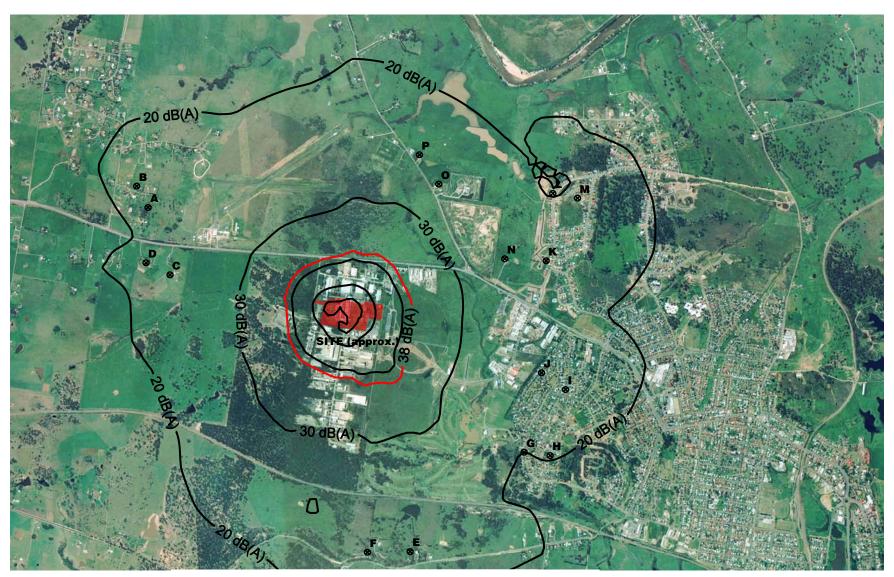
Notes to *Table 5.4*: L_{Aeq} levels presented

values rounded to nearest 0.5 dB(A)

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Figure 5.1: Noise contour impact isopleth (all sources, still isothermal conditions)



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5.3 Sleep disturbance

An L_{A1} sound power level of 111 dB(A) has been adopted for a road transport truck air break release. Impact noise on site from forklift tighnes or similar could be expected at an L_{A1} sound power level of 115 dB(A). These values have been measured by PB previously.

Assuming noise attenuation for distance alone (no allowance for ground effects, topographical shielding or atmospheric absorption) the following received noise levels would be expected under still isothermal conditions:

1,000 metres separation

Air break Release - 43 dB(A) Impact Noise - 47 dB(A)

The adopted L_{A1} sleep disturbance criterion of 49 dB(A) would be expected to be readily achieved throughout.

5.4 Road traffic noise

An average of 7 trucks per hour, resulting in a total of 14 truck movements, would be reasonably expected from the proposed facility. This is equivalent to approximately one truck every five minutes. Peak hour movements (8am to 9am and 3pm to 4pm) were indicated to be 22 trips / 44 movements in the a.m. and 17 / 34 movements in the p.m.

The haulage route to and from the site would be via the New England Highway.

Existing (2005) peak hour flows along the New England Highway were reported by Northern Transport Planning and Engineering Pty Ltd at 1305 light vehicles and 213 heavy vehicles (AM peak hour) and 1433 light vehicles and 153 heavy vehicles (PM peak hour).

Information contained in the Roads and Traffic Authority (RTA) *Traffic Volume Data for Northern Region* (1998), and projected to the year 2008, and reported by Bridges Acoustics (2002) provides the following existing traffic flow data:

New England Highway East (RTA station 05-147)

day time 26460 cars, 6615 trucks

night time 6615 cars, 4410 trucks

New England Highway West (RTA station 05-030)

day time 14160 cars, 3540 trucks

night time 3540 cars, 2360 trucks



5.4.1 Existing Levels

No baseline road traffic noise monitoring has been undertaken as part of this technical paper, nor is it considered necessary given the magnitude id the existing road traffic movements along the New England Highway and the minor contribution the site would have to existing traffic numbers.

Calculated traffic noise levels for the year 2008 were reported within the Bridges Acoustics National Ceramic Insutries Australia Pty Ltd Ceramic Tile Manufacturing Facility, Rutherford Technical Paper Mo. 1 – Noise (Report J0028-11-R1, dated December 2002). The following existing noise levels were calculated at an approximate distance of 15 metres from the roadway:

New England Highway East

 $L_{Aeq,15hr}$ (day time) 71 – 72 dB(A)

 $L_{Aeq. 9hr}$ (night time) 69 - 70 dB(A)

New England Highway West

L_{Aeq,15hr} (day time) 69 - 70 dB(A)

L_{Aeq, 9hr} (night time) 67 dB(A)

The number presented above indicate that noise levels from existing road traffic flows along the New England Highway would be well in excess of DEC base criteria at the nearest residential facades.

The Bridges Acoustic report did not include validation measurements for calculated existing road traffic noise levels.

5.4.2 Proposed Levels

At a distance of 20 metres between a given façade and the middle of the near side road carriage way, assuming a sound exposure pass-by level of 110 dB(A), anticipated hourly incremental L_{Aeq} levels follow:

■ am peak (44 movements): L_{Aeq. 1hr} 59.5 dB(A)

■ pm peak (34 movements): L_{Aeq. 1hr} 58 dB(A)

standard hour day / night (14 movements): L_{Aeq. 1hr} 54.5 dB(A).

Day time $L_{Aeq,15hr}$ impacts (260 movements adopted [am peak + pm peak + 13 standard hours]) would be expected in the range of 55 dB(A) to 56 dB(A).

Night time $L_{Aeq,9hr}$ impacts (126 movements adopted [9 standard hours]) would be expected in the range of 54 dB(A) to 55 dB(A).



5.4.3 Change in Road Traffic Noise Profiles

No measurebale increase in existing road traffic noise levels is expected. That is, truck movements would not result in any cumulative road traffic noise impacts for the area.

Although a number of existing sensitive receptors are located along the proposed route, and road truck noise may be audible, the potential for adverse impacts is not considered likely given the existing nature of road traffic noise profiles for the area.

Sleep disturbance issues and L_{AMax} noise impacts have not been considered in detail (outlined with the RTAs *Environmental Noise Management Manual* and NSW DECs *Environmental Criteria for Road Traffic Noise*) given the elevated number of existing road transport movements for the New England Highway. However, night time impacts due to air brake release (up to a noise emission level of 115 dB(A)) and impact noise (up to a noise emission level of 120 dB(A)) may be expected in the range of 70 – 85 dB(A) for the nearest receivers to the roadside carriageway of the New England Highway. The short term impacts, where evident, are not expected to result in a loss of sleep amenity. Any perceived impacts would be comnsistent with existing profiles.

Negligible change is expected to existing traffic noise profiles. The heavy vehicle movement schedule outlined within the Traffic Impact Assessment (prepared by Northern Transport Planning and Engineering Pty Ltd) indicates a total equivalent weekday daily movement number of 163 truck movements.

No significant cumulative increases in existing road traffic noise impacts would occur due to the proposal. The plant would likely reduce total network movements as movements to Branxton, Singleton Newcastle, Sydney and Queensland would not be required as frequently.

In considering portential road traffic noise impacts, it is important to note that the historical growth of the New England Highway be considered. A growth rate of three percent through Rutherford and Maitland would be expected to result in an increase in the range of 1000 to 1500 vehicles per day, of which between 250 – 500 would be expected to be road transport trucks. Compared to the proposed increase of approximately 260 day time movements and 126 night time movements through Rutherford and Maitland related directly to the proposal. At final design capacity, the waste resource and recovery facility would not be a significant contributor to existing road traffic movements for the area.

It is therefore considered that a more detailed road traffic noise impact assessment is not deemed necessary.

Several road traffic noise management practices have been recommended (Section 6.4).

5.5 Vibration

A qualitative assessment of potential vibration impacts has been presented within this section of the report. No targeted impact calculations have been carried out.



Vibration issues are not likely to be associated with the construction or operation of the facility.

Worse case vibration levels may be associated with the site preparation works and the movement of road transport trucks. There is negligible potential for off-site structural damage, and regenerated noise issues.

Potential annoyance and comfort impacts associated with vibration have been detailed below.

Typical vibration levels for an excavator range from one – two millimetres per second at a distance of five metres and generally decreases to less than 0.2 millimetres per second at distances greater than 20 metres. Typical vibration levels from heavy trucks passing over normal (smooth) road surfaces generate relatively low vibration levels in the range of 0.01 – 0.2 millimetres per second at the footings of buildings located 10 – 20 metres from a roadway.

Vibration impacts are expected to be insignificant at a distance of 10 metres and immeasurable beyond 50 metres.

Vibration emission levels from the site (construction and operation phases) would be negligible given the separation distances to the nearest potentially affected receivers. No structural damage is expected. Furthermore, annoyance due to vibration is not likely to be experienced.



Statement of potential impact

6.1 Construction noise

6.1.1 Potential impacts

Construction noise impacts are not expected to exceed the adopted noise design goals. The adopted goal of 51 dB(A) (L_{A10}) was achieved for each receiver.

However, short term construction noise impacts may occur if appropriate construction noise controls and management practices are not implemented.

A number of economically reasonable and technically feasible noise mitigation options that would be considered by the construction contractor have been provided in *Section 6.1.2*.

6.1.2 Mitigation measures and safeguards

The contractor would address each of the following items to ensure every reasonable effort is made to meet the identified noise design goals, and so that no unnecessary exceedances occur:

- intensive construction activities (with the potential to be audible off site) would be scheduled between Monday to Friday, 7.00 am to 6.00 pm, and Saturdays, 8.00 am to 1.00 pm. No audible works would be undertaken on Sundays or Public holidays
- construction activities would be undertaken in accordance with Australian Standard AS 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites. All equipment used on site would be required to demonstrate compliance with the noise levels recommended within AS 2436-1981.

It is also recommended that noise monitoring be undertaken during the initial construction works. The noise compliance monitoring would ensure that any assumptions made in the calculations are verified and would also allow an opportunity for liaison with the local community. The compliance monitoring would provide the contractor with feedback relating to operating practices and the adoption of technically feasible and/or economically reasonable noise control measures for key sources affecting residential noise levels.

A noise management plan would be developed as part of the construction environmental management plan to be prepared by the construction contractor prior to the commencement of construction activities.

The management plan would identify and address noise impact for all potentially affected receivers and provide procedures, noise mitigation measures and noise management practices proposed throughout the duration of the works.



6.2 Operational noise

6.2.1 Potential impacts

The operation of the proposed facility is unlikely to result in a degradation of the existing ambient noise environment.

Received noise levels were calculated at ground level for 16 adjacent existing residential receivers (a total of six noise catchments).

Residential L_{Aeq} predictions of 30 dB(A) and below were reported for still conditions. Under noise enhancing meteorological conditions, residential L_{Aeq} noise impact of 36.5 dB(A) and below were predicted.

Boundary noise levels of less than 70 dB(A) are anticipated.

Compliance with the noise design objectives established for this proposal were achieved for all assessed operations.

Background (median L_{A90}) noise levels at Location 1, Dent Street to the north west, were reported at 44 dB(A), 41.5 dB(A) and 35 dB(A) (for the day time, evening and night time periods respectively). Background (median L_{A90}) noise levels at Location 2, Anambah Road to the north east, were reported at 41 dB(A), 40.5 dB(A) and 34 dB(A) (for the day time, evening and night time periods respectively).

No increase in long-term degradation to the existing off-site residential noise profiles is expected, that is, the site would be inaudible to barely audible at each nearest potentially affected receiver during all periods of operations.

Potential intrusive noise impacts during the night time period may occur from the short term movement of mobile sources throughout the site. Recommendations have been made to minimise these impacts within *Section 6.2.2*.

6.2.2 Mitigation measures and safeguards

The works carried out as part of this assessment has been based on conservative factors and all potential operating conditions, with an emphasis being placed on worse case events.

Given the potential for short-term elevated site operations (particularly vehicle movements) and nature of the existing ambient noise environment, several environmental management procedures have been recommended aimed at limiting potential noise emission issues.

Analysis of the ENM output files has shown that auxiliary equipment such as an articulated semi-trailer significantly contribute to the noise emissions from the site when operating on the internal access road. Therefore, the use of this equipment would be carried out in a reasonable manner, with the associated off-site noise impacts considered at all times.



Scheduling of truck movements would be undertaken. No more than six road transport trucks would be in operation (manoeuvring or idling) on the site at any one time. This was the number assumed in the modelling carried out.

Each item outlined below would minimise the potential for adverse off-site noise impacts.

- a contact number would be provided to the public so that information can be received or complaints made in relation to noise. A log of complaints would be maintained and actioned by the contractor. A complaint handling procedure would be formulated and adhered to
- residential class mufflers and where applicable, engine shrouds (acoustic lining) to permanent on site mobile sources engine would be used. Noise emissions are to be an important consideration when selecting equipment for the site. All equipment would be maintained in good order including mufflers, enclosures and bearings to ensure unnecessary noise emissions are eliminated
- appropriate use of all plant and equipment. Reasonable work practices are to be applied with no extended periods of 'revving', idling or 'warming up' within the proximity of existing residential receivers. Any excessively loud activities would be scheduled during periods of the day when an increase in general ambient noise levels is apparent. This would reduce the potential for cumulative noise impacts (relating to worst-case elevated operations) and extended periods of off-site annoyance.

The final design of the plant is to consider the impact potential presented within this report. Source selection and noise emission levels have been assumed in the assessment of impact potential. Process operations additional to, or that emit noise at levels higher than, those adopted in the predictive modelling may result in changes to received operational noise impacts.

Post commissioning source emission and ambient background monitoring would be undertaken prior to each stage of the developed to confirm the noise source levels and associated received noise levels. An assessment of annoying characteristics would need to be undertaken at this stage.

An operational environmental management plan (noise issues) would outline procedures that specifically address potential noise impacts and the requirements for corrective measures in the event of elevated off-site noise levels or residential complaints.

6.3 Sleep disturbance

6.3.1 Potential impacts

No sleep disturbance issues are anticipated from the operations of the facility. L_{A1} impacts of less than 49 dB(A) were reported.



6.3.2 Mitigation measures and safeguards

No site-specific mitigation measures or safeguards are deemed necessary. The operational environmental management plan (noise issues) would outline procedures that specifically address the requirements for corrective measures in the event that sleep disturbance noise impacts occur.

6.4 Road traffic noise

No operational road traffic noise issues are anticipated.

Detailed assessment of road traffic noise impacts for the operations works has not been undertaken due to existing heavy traffic flows along the New England Highway and negligible incrementral impacts from the proposal.

As the distance of separation from the New England Highway increases, road traffic noise impacts would reduce significantly. Further attenuation would also be provided by existing structures located along the noise transmission path (being the façade of the residential dwellings).

Existing road traffic noise impacts would be well above the NSW DECs 'base' criterion. The NSW DEC road traffic noise 'allowance' criterion would be readily achieved.

Controlling existing road traffic noise impacts from a source such as the New England Highway is considered beyond the principles of reasonable and feasible for a single industrial development.

6.4.1 Mitigation measures and safeguards

A road traffic noise management plan would be completed as part of the construction and operational noise management plan. Factors such as route selection, preferred movement times, scheduling of movements, speed limits and 'community friendly' driving practices would be clearly outlined.

Truck movements would be limited to no more than six movements per hour (excluding peak hour flows). This would provide a safeguard for protecting local residential noise amenity. Site management is to ensure that the necessary timetabling and organisation of contractors is conducted in a manner that accommodates this need.

It is proposed that trucks entering the site during the night time period have air bag suspensions. Engine brakes would not be used. Access would be via Kyle Street with a creep speed of 5 km/hr. Limiting the potential for night time noise impacts would significantly reduce the potential for local residential annoyance and potential sleep disturbance issues.

No queuing of road transport trucks along Kyle Street are to take place at any time. The following practical on-site vehicle movement practices are also recommended:



- low on-site speed limits
- no use of horns or engine brakes
- adequate access road design.

6.5 Vibration

6.5.1 Potential impacts

No construction vibration issues are anticipated. Similarly, minimal potential for operational related vibration impacts are expected. Given the separation distances between the nearest resident and the site, no vibration impact is considered likely.

The intermittent and transient activities would not result in structural damage. Minimal potential for annoyance is anticipated.

6.5.2 Mitigation measures and safeguards

No site-specific mitigation measures or safeguards are deemed necessary.



7. Conclusion

This report documents as assessment of environmental noise issues for the proposed construction and operation of the waste resource recovery and recycling facility located at Rutherford.

A number of source emission scenarios were considered with impact potential (and loss of residential amenity / noise intrusion) compared with site-specific noise design goals derived in accordance with NSW Department of Environment and Conservation guidelines.

Short-term construction impacts may occur for the closest residential receivers without suitable noise control measures or construction management practices. External construction activities have the greatest potential for construction noise impacts in residential areas.

It is important to note that with respect to construction noise planning goals, the NSW Department of Environment and Conservation recognise that individuals accept higher perceived noise impacts for emission sources with a limited duration and identified end date. A number of construction noise management options have been recommended.

No operational noise issues are anticipated. The adopted operational noise design goals were achieved throughout. With the adoption of the recommended management practices, the operations of the site are expected to be generally inaudible within the surrounding residential areas for all periods of the day.

No sleep disturbance, construction-related road traffic noise or construction-related vibration impacts are anticipated.

It is recommended that post-commissioning noise source validation measurements be carried out to verify the assumptions made, and subsequent conclusions provided, within this report.

It is expected that a performance based approach would be applied during the final design and construct stage of the site. Conceptually, the proposed site is not expected to result in future socio-acoustic land use incompatibility.

With adherence to the recommendations made within this report, no long-term loss or degradation to the existing local acoustic amenity is expected from the construction and operation of the proposed waste resource recovery and recycling facility.



8. References

AS 2436-1981 Guide to Noise Control on Construction, Maintenance and Demolition Sites

AS 2670 Evaluation of Human Exposure to Whole-body Vibration

Bridges Acoustics National Ceramic Insutries Australia Pty Ltd Ceramic Tile Manufacturing Facility, Rutherford Technical Paper Mo. 1 – Noise (Report J0028-11-R1, dated December 2002)

BS 6472 1992 Evaluation of Human Exposure to Vibration in Buildings (1 Hz to 80 Hz)

BS 7385 1990 Evaluation and Measurement for Vibration in Buildings

DIN 4150-3 1999 Structural Vibration Part 3 Effects of Vibration on Structures.

Northern Transport Planning and Engineering Pty Ltd *Transpacific Industries Pty Ltd Proposed Resource Recovery and Recycling Facility, Rutherford Traffic Impact Study* (Report 05908, dated April 2005)

NSW DEC Industrial Noise Policy (2000)

NSW DEC Environmental Noise Control Manual (1994)

NSW DEC Environmental Criteria for Road Traffic Noise (1999)

Protection of the Environment Operations Act (1997)



9. Limitations

Scope of Services and Reliance of Data

This environmental impact study ("the study") has been prepared in accordance with the scope of work/services set out in the contract, or as otherwise agreed, between Parsons Brinckerhoff (PB) and the Client. In preparing this environmental impact study, PB has relied upon data, surveys, analyses, designs, plans and other information provided by the Client and other individuals and organisations, most of which are referred to in the environmental impact study ("the data"). Except as otherwise stated in the environmental impact study, PB has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in this environmental impact study ("conclusions") are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. PB will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to PB.

Study for Benefit of Client

This environmental impact study has been prepared for the exclusive benefit of the Client and no other party. PB assumes no responsibility and will not be liable to any other person or organisation for or in relation to any matter dealt with in this environmental impact study, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in this environmental impact study (including without limitation matters arising from any negligent act or omission of PB or for any loss or damage suffered by any other party relying upon the matters dealt with or conclusions expressed in this environmental impact study). Other parties should not rely upon the environmental impact study or the accuracy or completeness of any conclusions and should make their own inquiries and obtain independent advice in relation to such matters.

Other Limitations

To the best of PBs knowledge, the proposal presented and the facts and matters described in this environmental impact study reasonably represent the Client's intentions at the time of printing of the environmental impact study. However, the passage of time, the manifestation of latent conditions or the impact of future events (including a change in applicable law) may have resulted in a variation of the Proposal and of its possible environmental impact.

PB will not be liable to update or revise the environmental impact study to take into account any events or emergent circumstances or facts occurring or becoming apparent after the date of the environmental impact study.

Appendix A

Instrument set calibration certificates

EL 215 Noise Logger - unattended noise monitoring

(Location 1, 9 Denton Close)

Acoustic Research Laboratories

Noise and Vibration Monitoring Instrumentation for Industry and the Environment

Sound Level Meter Test Certificate

Report Number: 03230

Date of Test: 17th October 2003

Report Issue Date: 17th October 2003

Equipment Tested: ARL Noise Logger

Model Number: EL-215

Serial Number: 194447

Client Name: Acoustic Research Laboratories

Contact Name: Robyn Hastings

Tested by: Will Ford

Approved Signatory :

Date: 17th October 2003



Measurement

- The tests, calibrations or measurements covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC 17025:1999 and are traceable to national standards of measurement.
- This Report may not be published except in full, unless permission has been granted in writing from Acoustic Research Laboratories Pty Ltd.

EL 215 Noise Logger - unattended noise monitoring

(Location 2, 96 Anambah Denton Road)

Acoustic Research Laboratories

Noise and Vibration Monitoring Instrumentation for Industry and the Environment

Sound Level Meter Test Certificate

Report Number: 05077.doc

Date of Test: 18/04/2005

Report Issue Date: 20/04/2005

Equipment Tested: Environmental Noise Logger

Model Number: EL-215

Serial Number: 194446

Client Name: Acoustic Research Laboratories

Contact Name: Katie Fairjones

Tested by: Will Ford

Approved Signatory:

Ken Williams

Date: 20th April 2005.



The tests, calibrations or measurements covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC 17025:1999 and are traceable to Australian national standards of measurement. This document shall not be reproduced except in full.

RION NA 27 - attended day time monitoring

17/06/2004 10:10 61294840884

ARL

PAGE 01

Acoustic Research Laboratories Proprietary Limited A.B.N. 47 050 100 804 Noise and Vibration Monitoring Instrumentation for Industry and the Environment

Sound Level Meter Test Report

Report Number: 03277

Date of Test: 2nd December 2003

Report Issue Date: 2nd December 2003

Equipment Tested: Rion

Model Number: NA-27

Serial Number: 00601291

Client Name: Acoustic Research Laboratories

Contact Name: Robyn Hastings

Tested by: Will Ford

Approved Signatory:

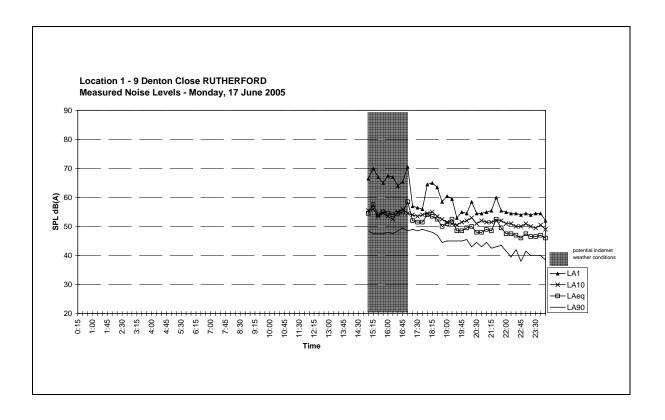
Date: 2nd December 2003

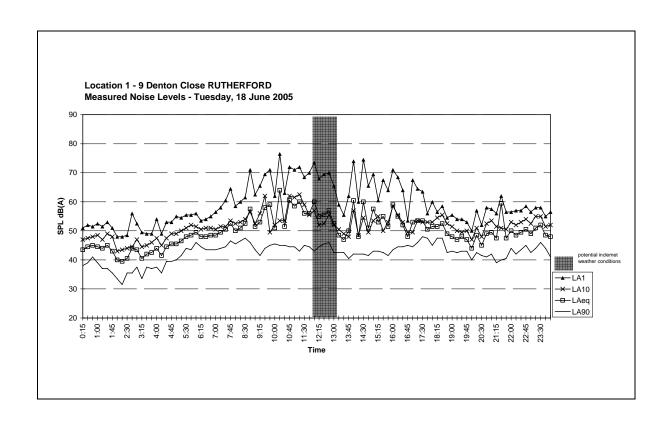


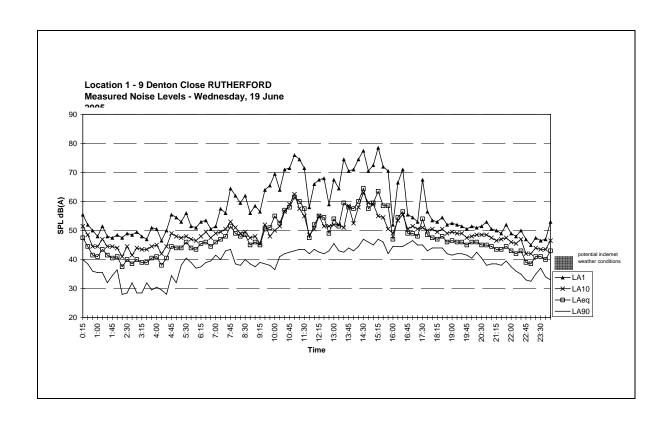
- The tests, calibrations or measurements covered by this document have been performed in accordance with NATA requirements which include the requirements of ISO/IEC 17025:1999 and are traceable to national standards of measurement.
- This Report may not be published except in full, unless permission has been granted in writing from Acoustic Research Laboratories Pty Ltd.

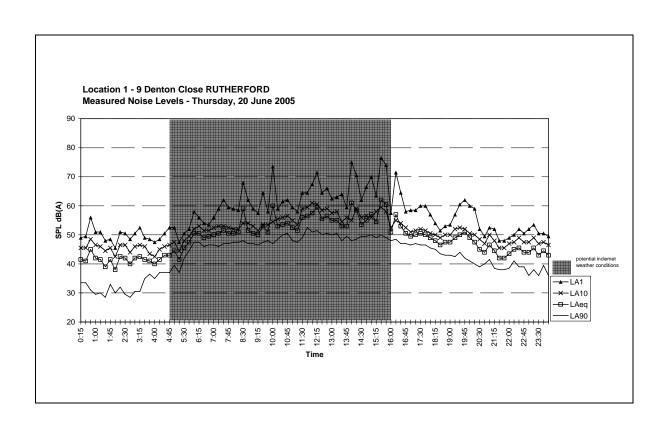
Appendix B

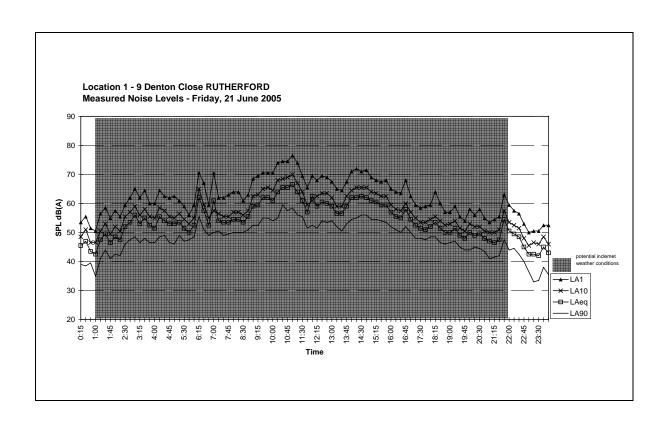
Compiled daily noise logger graphs

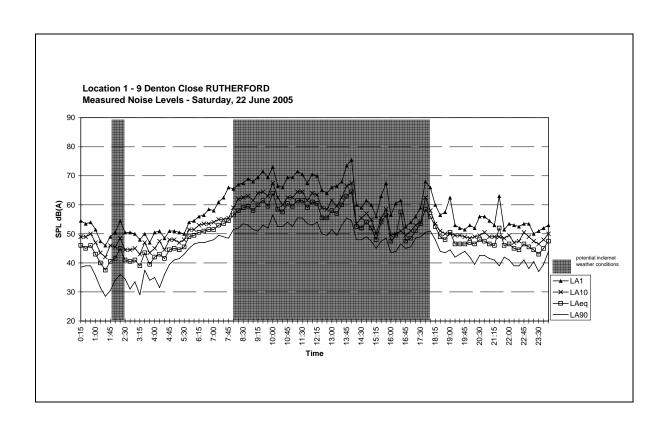


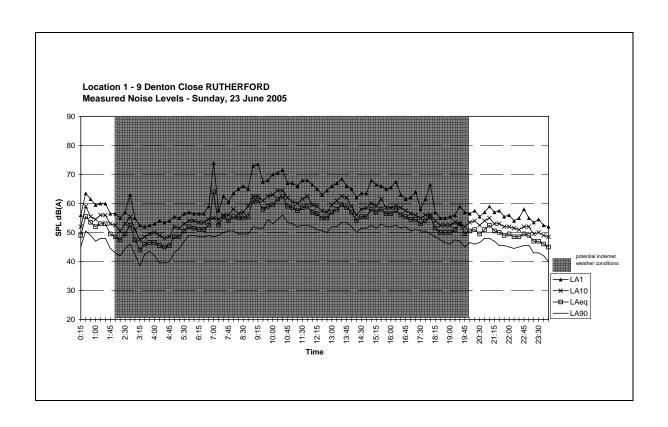


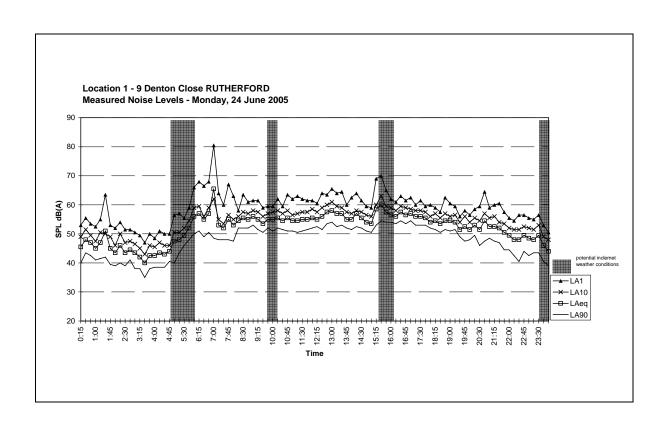


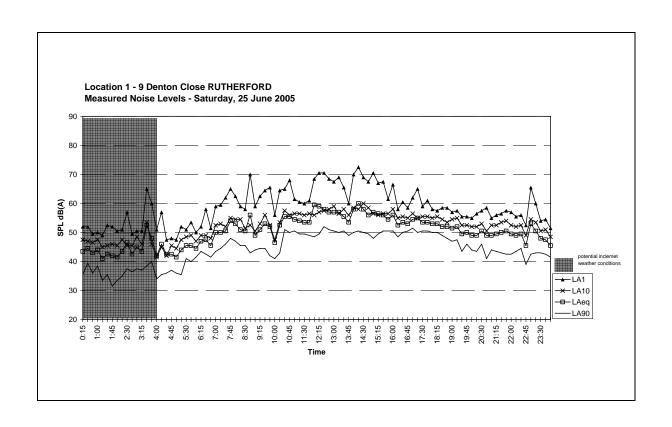


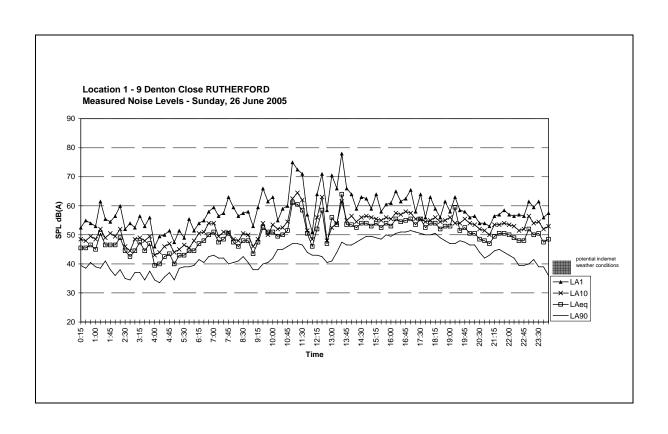


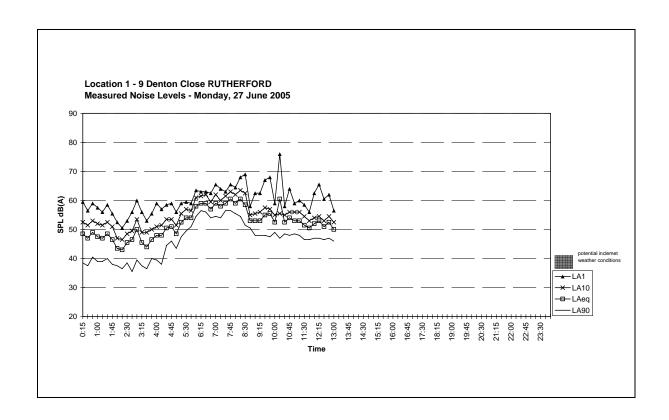


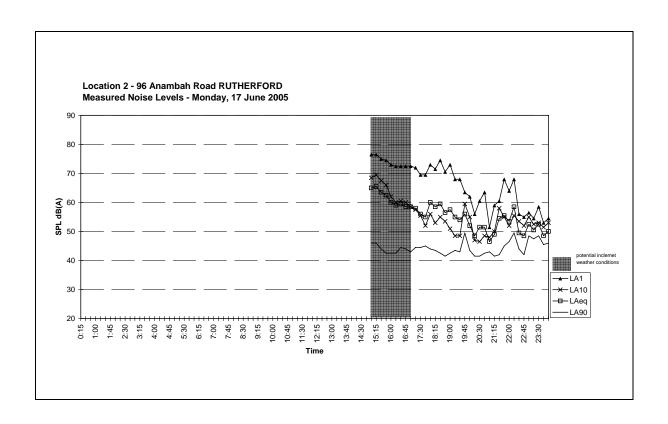


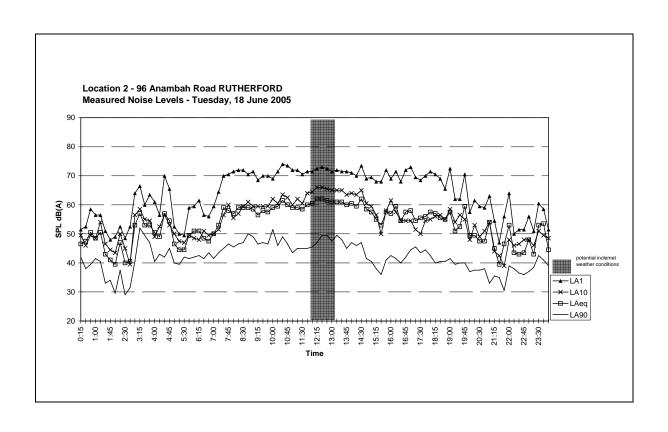


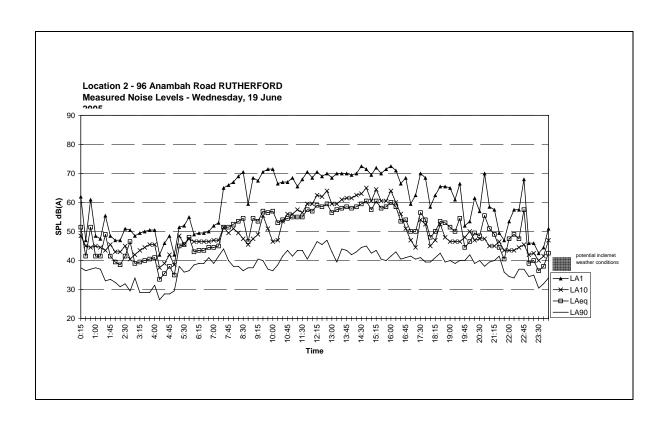


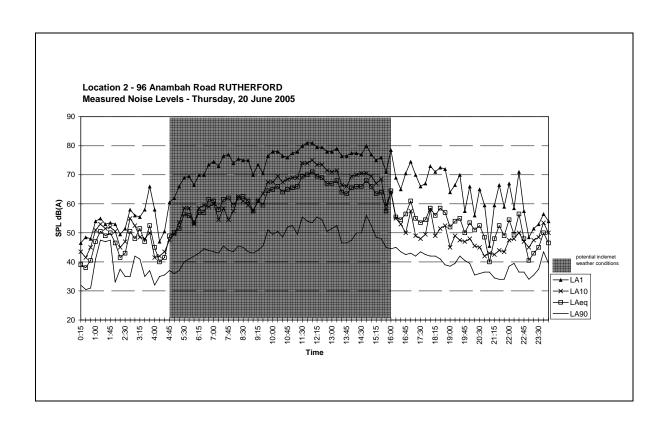


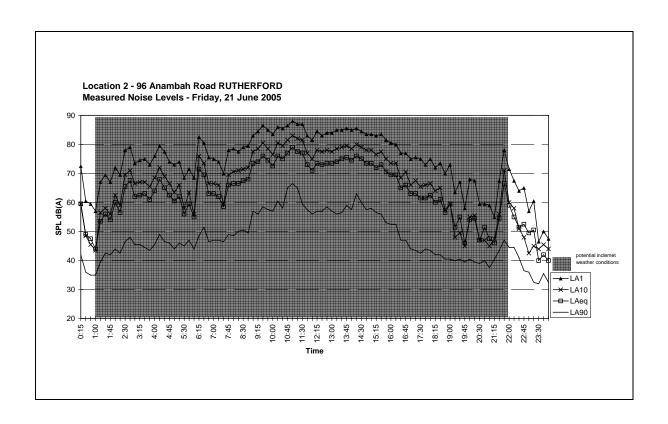


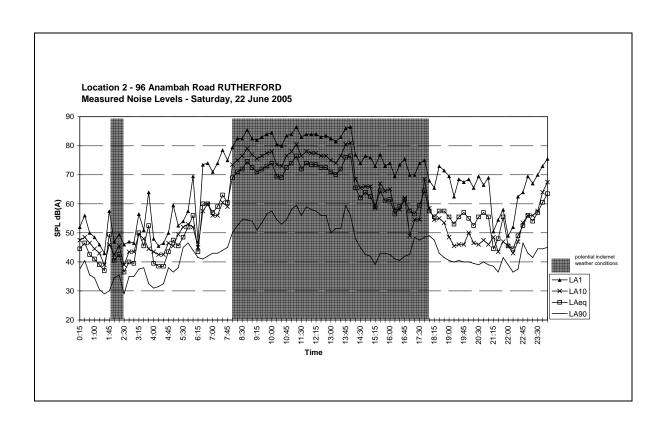


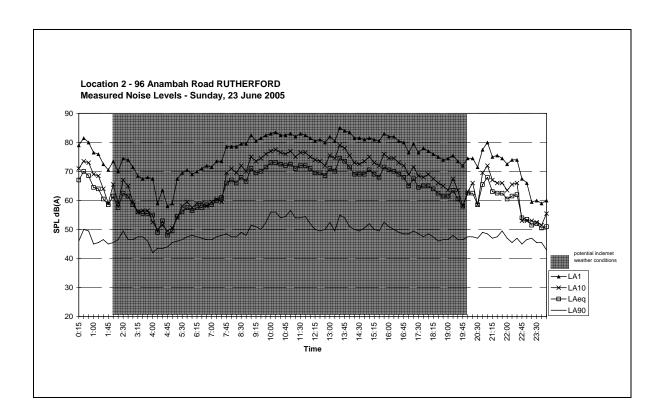


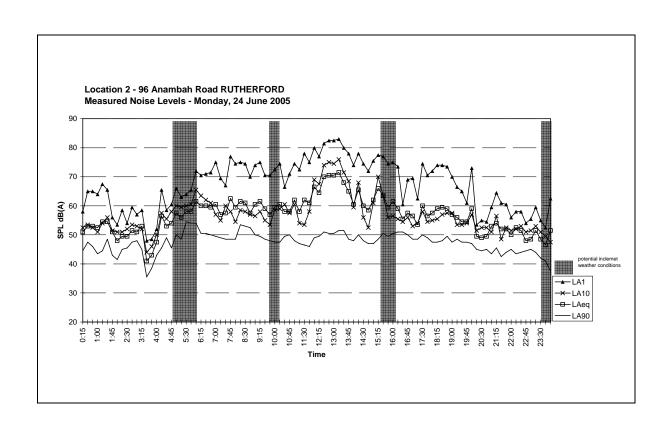


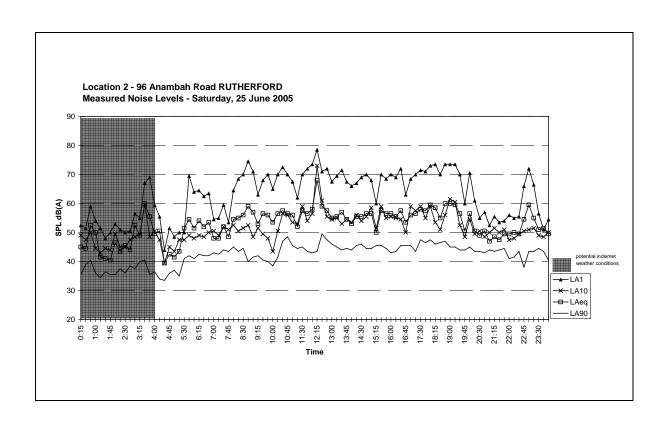


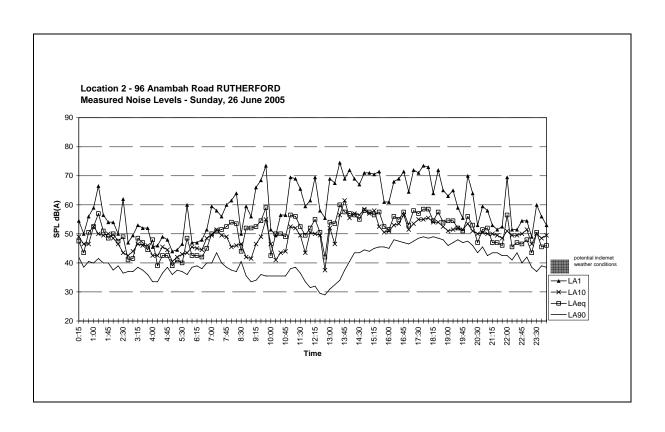


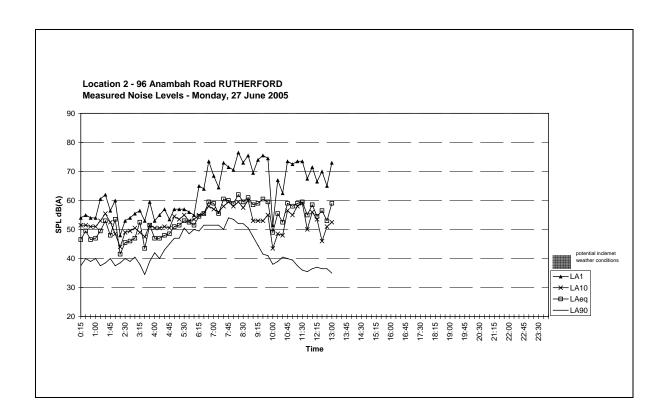












Appendix C

Sample ENM output file

```
OUTPUT FOR (.out) Ruthe
SINGLE POINT CALCULATION
                                                      Rutherford Waste Revocey - Scn A-3 (CFS) neutral
   ENM CALC MODULE
  FILENAMES
     C:\ENM\SOURCES\2118506A\506A-3
     2118506A.GEN
     C:\ENM\MAPS\2118506A\506A
    OUT1 file and RNK1 file
  TEMP (deg C)
                                                  HUMIDITY (%)
         25.0
                                                              50.0
   WIND SPEED (m/sec) WIND DIR (deg)
                                                                  .0
               .0
  TEMP GRAD (deg C/100m)
                .0
   X= 647.000 Y= 3483.000 Z=
                                                                                            46.200
   SOURCE :
                                   13
  CFS - processing (external) - backhoe
                                                                                                    ___FREQUENCY Hz_
                                                 31.5 63 125
                                                                                               250
                                                                                                                500
                                                                                                                                  1k
                                                                                                                                                   2k
                                                                                                                                                                    4k
                                                                                                                                                                                   8k
                                                                                                                                                                                                16k
  POWER LEVEL
                                                  95.0 95.0 95.0 95.0 95.0 95.0
                                                                                                                                                              95.0
                                                                                                                                                                                95.0
  DIRECTIVITY
                                                   .0
                                                                    .0
                                                                                   .0
                                                                                                   .0
                                                                                                                   .0
                                                                                                                                  .0
                                                                                                                                                  .0
                                                                                                                                                                   .0
                                                                                                                                                                                  .0
                                                  76.2 76.2
                                                                                 76.2
                                                                                                76.2
                                                                                                                 76.2
                                                                                                                                76.2
                                                                                                                                                                 76.2
  DISTANCE
                                                                                                                                                 76.2
                                                                                                                                                                                 76.2 76.2
                                                                                 18.6 21.6
.6 2.1
                                                                                                                                                 25.0
18.9
                                                                                                                                                                25.0
37.0
  BARRIER
                                                  12.8
                                                                 15.6
                                                                                                                 24.6
                                                                                                                                 25.0
                                                                                                                                                                                 25.0
                                                                                                                                                                                              25.0
                                                   .0
   AIR ABSORPTION
                                                                                                                  5.7
                                                                                                                                11.0
                                                                                   .6
.0
                                                                                                                .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... .
   TEMP & WIND
                                                         . 0
                                                                         . 0
                                                  -3.7
                                                                   1.7
                                                                                   3.2 -3.6
  GROUND
                                                                  1.3 -3.7 -1.4 -11.3 -14.4 -22.6 -41.5-100.0-100.0
  TOTAL AWT -7.1 9.6
  CFS - processing (external) - FEL
                                                                                                   ___FREQUENCY Hz_
                                                  31.5 63
                                                                               125
                                                                                              250
                                                                                                                500
                                                                                                                                                                                                16k
                                                                                                                                  1k
                                                                                                                                                   2k
                                                                                                                                                                    4k
                                                                                                                                                                                   8k
   POWER LEVEL
                                                  94.0 100.0 100.0 106.0 98.0 101.0 98.0
                                                                                                                                                              92.0
                                                                                                                                                                                 86.0
  DIRECTIVITY
                                                   .0 .0
                                                                                .0 .0
                                                                                                                 .0 .0
                                                                                                                                                  . 0
                                                                                                                                                                    .0
                                                                                                                                                                                   . 0
                                                 DISTANCE
```

. 0

. 0

BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 1.1	13.4 .0 .0 -3.7	16.4 .2 .0 1.6						25.0 37.0 .0 -3.1	.0	25.0 300.0 .0 -1.8
SOURCE : 15 CFS - curing (int	enral)	- FEL								
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	90.0	90.0	96.0	88.0	91.0	88.0	82.0	76.0 .0	.0
DISTANCE BARRIER AIR ABSORPTION	76.4 12.9 .0	76.4 15.8	76.4 18.8 .6	76.4 21.8 2.2	76.4 24.8 5.8	76.4 25.0 11.1	76.4 25.0 19.1	76.4 25.0 37.4	76.4 25.0 100.2	25.0

SOURCE :	16			
CFS - curing	(intenral)	- conveyor	belt /	motor 1

		FREQUENCY Hz_										
	31.5	63	125	250	500	1k	2k	4k	8k	16k		
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0		
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 12.7 .0 .0	76.4 15.4 .2 .0	76.4 18.4 .6 .0 4.4	76.4 21.4 2.2 .0 -3.3	76.4 24.4 5.8 .0 9	76.4 25.0 11.2 .0 -2.7	76.4 25.0 19.2 .0 -2.6	76.4 25.0 37.6 .0 -2.7	76.4 25.0 100.7 .0	76.4 25.0 300.0 .0 -1.6		

TOTAL AWT -8.5 -1.6 -4.1 -8.9 -.7 -18.6 -18.7 -29.9 -54.6-100.0-100.0

TOTAL AWT -24.6 -8.3 -.4 -19.9 -22.7 -33.7 -41.9 -52.9 -74.3-100.0-100.0

SOURCE : 17

CFS - curing (intenral) - conveyor belt / motor 2

				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 12.6 .0 .0	76.4 15.2 .2 .0 1.4	76.4 18.2 .6 .0 4.3	76.4 21.2 2.2 .0 -3.3	76.4 24.2 5.8 .0 8	76.4 25.0 11.3 .0 -2.8	76.4 25.0 19.3 .0 -2.5	76.4 25.0 37.8 .0 -2.6	.0	.0
TOTAL AWT -24.4	-8.3	2	-19.6	-22.5	-33.7	-42.0	-53.2	-74.6	-100.0-	-100.0

SOURCE : 18 CFS - curing (intenral) - conveyor belt / motor 3

				FR	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 11.1 .0 .0	76.4 12.8 .2 .0 2.2	76.4 15.6 .6 .0	76.4 18.6 2.2 .0 -3.5	76.4 21.6 5.8 .0 -1.2	76.4 24.6 11.3 .0 -1.3	76.4 25.0 19.3 .0 -2.8	25.0 37.8 .0	25.0 101.2 .0	76.4 25.0 300.0 .0 -2.9
TOTAL ANT 22 1	7 1	1 /	1 / E	10.7	20.7	42.0	E2 0	76 1	100 0	100 0

TOTAL AWT -22.1 -7.1 1.4 -14.5 -19.7 -30.7 -43.0 -52.9 -76.1-100.0-100.0

SOURCE : 19 CFS - curing (intenral) - conveyor belt / motor 4

				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0 .0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 9.8 .0 .0	76.4 12.0 .2 .0 2.4	76.4 13.8 .6 .0	76.4 16.8 2.2 .0 -3.3	76.4 19.8 5.8 .0 -1.4	76.4 22.9 11.2 .0 -1.7	76.4 25.0 19.2 .0 -1.9	76.4 25.0 37.6 .0 -1.7	76.4 25.0 100.7 .0 -2.2	76.4 25.0 300.0 .0 -3.3
TOTAL AWT -20.9	-5.8	2.0	-12.2	-18.1	-28.6	-40.8	-53.6	-75.3	-100.0-	-100.0

SOURCE : 20 CFS - curing (intenral) - conveyor belt / motor 5

		FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k		
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0		
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.3 11.7 .0 .0	76.3 13.3 .2 .0 2.1	76.3 16.3 .6 .0 2.1	76.3 19.3 2.1 .0 -3.5	76.3 22.3 5.7 .0 -1.0	76.3 25.0 11.1 .0 -1.4	76.3 25.0 18.9 .0 -2.6	76.3 25.0 37.2 .0 -2.8	76.3 25.0 99.5 .0 -3.3	.0		
TOTAL AWT -22.6	-7.5	1.1	-15.3	-20.2	-31.3	-43.0	-52.6	-73.6-	100.0-	-100.0		

CFS - curing (intenral) - conveyor belt / motor 6

		FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k		
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0		
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.2 11.2 .0 .0	76.2 12.8 .2 .0 2.1	76.2 15.6 .6 .0	76.2 18.7 2.1 .0 -3.5	76.2 21.7 5.7 .0 -1.2	76.2 24.7 11.0 .0 -1.3	76.2 25.0 18.8 .0 -2.8	76.2 25.0 36.8 .0 -1.0	76.2 25.0 98.6 .0 2	76.2 25.0 300.0 .0 -3.4		
TOTAL AWT -21.9	-6.9	1.7	-14.4	-19.5	-30.4	-42.6	-52.2	-75.0-	100.0-	-100.0		

SOURCE : 22

CFS - processing	(exte	rnal) ·			o E∩IIENI	TV UF				
	31.5	63					2k		8k	16k
POWER LEVEL DIRECTIVITY	111.0	114.0	103.0	104.0	103.0	100.0	98.0	94.0	88.0	.0
	75.5	75.5 .0	75.5 .0	75.5 .0	75.5 .0	75.5 .0 10.2	75.5 .0 17.4	75.5 .0 34.4	75.5 .0 91.5	75.5 .0 300.0
TEMP & WIND GROUND	.0 -4.8	.0 -1.3	.0 8.4	.0 9.7	.0 1.2		.0 -3.3			
TOTAL AWT 22.4	40.3	39.6	18.5	16.8	21.1	18.6	8.3	-13.2	-76.4	-100.0
SOURCE : 23 CFS - processing		rnal) ·	- RTT :	revers	ing					
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
AIR ABSORPTION	.0	. 2	. 6	2.1	5.7	11.1	19.0	37.2	99.7	300.0
GROUND	-4.8	-1.0	9.1	9.7	1.2	-4.3	19.0 .0 -3.4	-2.7	-2.7	-3.0
TOTAL AWT 11.0	-14.6	4	-11.0	-9.1	5.8	9.9	9	-23.9	-96.4	-100.0
SOURCE : 24 CFS - processing		rnal) ·	- dust	colle	ctor /	fan				
				FI	REQUEN	CY Hz_				
							2k			
POWER LEVEL DIRECTIVITY										
DISTANCE BARRIER	76.1 .0	76.1 .0	76.1 .0	76.1 .0	76.1 .0	76.1 .0	76.1 .0	76.1 .0	76.1 .0	76.1 .0
AIR ABSORPTION TEMP & WIND	. 0	. 2	.6	2.1	5.6	10.9	.0 18.6 .0	36.6	97.8	300.0
GROUND	-4.8	-1.1	8.9	9.6	1.1	-4.3	-3.3	-2.7	-2.7	-2.9
TOTAL AWT 23.9		26.8	20.3	21.1	25.1	18.3	2.6	-21.0	-88.3	-100.0
SOURCE : 25 CFS - processing		rnal) ·	- fork	lift						
				FI	REQUEN	CY Hz_				
							2k			
POWER LEVEL DIRECTIVITY							91.0 .0			
DISTANCE BARRIER	76.3 11.4	76.3 12.9	76.3 15.9	76.3 18.9	76.3 21.9	76.3 24.9	76.3 25.0	76.3 25.0	76.3 25.0	76.3 25.0
AIR ABSORPTION	.0	. 2	.6	2.1	5.7	11.1	19.0	37.2	99.6	300.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	-3.5	2.1	2.1	-3.5	-1.0	-1.4	-2.6	-3.0	-3.2	.0 -2.9
TOTAL AWT -3.6										
SOURCE : 26 CFS - processing		rnal) ·	- aggre	egate 1	unload					
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
DISTANCE	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
BARKIER AIR ABSORPTION	.0	.0	.0 .6	.0 2.1	.0 5.7	.0 11.0	.0 18.8	.0 36.8	.0 98.6	300.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0 -4.8	.0 -1.1	9.0	.0 9.7	.0 1.2	.0 -4.3	.0 -3.4	.0 -2.7	.0	.0 -3.0
TOTAL AWT 22.6										
SOURCE : 27 CFS - processing		rnal) ·	- silo	vent :	1					
				FI	REQUEN	CY Hz_				

	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY				89.0						
				76.1						
BARRIER AIR ABSORPTION	.0	.0	6	.0		.0 10.9				
TEMP & WIND	.0	.0		.0			.0			
GROUND			7.0	2.8						
TOTAL AWT 7.9	12.2	6.3	2.2	8.0	10.1	-4.1	-18.3	-40.8	-100.0-	-100.0
SOURCE : 28 CFS - processing		nal) -	- silo	vent 2						
				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	82.0	86.0	89.0	88.0	81.0	74.0	69.0 .0	63.0	. (
DISTANCE	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
BARRIER	.0	.0	.0	.0	.0	.0	.0	.0	.0	. (
AIR ABSORPTION	. 0	2	.6 .0	2 1		10.9				300.0
TEMP & WIND GROUND	.0 -4.4	. U 6	7.0	2.8		.0 -1.9	.0 -2.5	-3.0	.0 -2.9	-2.3
FOTAL AWT 7.9	12.2	6.3	2.2	7.9	10.0	-4.1	-18.3	-40.9-	-100.0-	-100.0
FOTAL AWT 28.0 SINGLE POINT CALC ENM CALC MODULE			23.6	23.4	27.3	24.5	12.6	-9.7	-66.5	-88.0
OUT1 file and RI TEMP (deg C) 25.0	HUN		(%)							
TEMP (deg C) 25.0	HUN	MIDITY 50.0								
TEMP (deg C) 25.0 WIND SPEED (m/sec	HUN	MIDITY 50.0								
TEMP (deg C) 25.0 WIND SPEED (m/sec .0 TEMP GRAD (deg C,	HUN C) WIN /100m)	MIDITY 50.0 ND DIR .0	(deg)	53.20	0					
TEMP (deg C) 25.0 WIND SPEED (m/sec .0 TEMP GRAD (deg C, .0 X= 510.000 Y:	HUN c) WIN /100m) = 3539	MIDITY 50.0 ND DIR .0	(deg) Z= - backh	noe						
TEMP (deg C) 25.0 WIND SPEED (m/sec .0 TEMP GRAD (deg C, .0 X= 510.000 Y:	HUN c) WIN /100m) = 3539 (exter	MIDITY 50.0 ND DIR .0	(deg) Z= - backh	noe FR	EQUENC					
TEMP (deg C) 25.0 WIND SPEED (m/sec .0 TEMP GRAD (deg C, .0 X= 510.000 Y:	HUN c) WIN /100m) = 3539 (exter	MIDITY 50.0 ND DIR .0	(deg) Z= - backh	noe	EQUENC				8k	16k
TEMP (deg C) 25.0 NIND SPEED (m/sec. 0 TEMP GRAD (deg C, 0 K= 510.000 Y: SOURCE: 13 CFS - processing	HUN /100m) = 3539 (exter	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .00	Z= - backl	noe FR 250	EQUENC 500	1k	2k	4k	95.0	
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 K= 510.000 Y: SOURCE : 13 DESCRIPTION OF THE PROCESSING POWER LEVEL DIRECTIVITY DISTANCE	HUN (100m) = 3539 (exter 31.5 95.0 .0 76.9	AIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backh 125 95.0 .0 76.9	noe FR 250 95.0 .0 76.9	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	4k 95.0 .0	95.0 .0 76.9	76.
CEMP (deg C) 25.0 NIND SPEED (m/sec. 0 CEMP GRAD (deg C, 0 C= 510.000 Y: COURCE: 13 CFS - processing COWER LEVEL DIRECTIVITY	HUN (100m) = 3539 (exter 31.5 95.0 .0 76.9	AIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backh 125 95.0 .0 76.9	noe FR 250 95.0 .0 76.9	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	4k 95.0 .0	95.0 .0 76.9	76.
CEMP (deg C) 25.0 VIND SPEED (m/sec. 0 CEMP GRAD (deg C, 0 C= 510.000 Y: COURCE: 13 CFS - processing COWER LEVEL DIRECTIVITY	HUN (100m) = 3539 (exter 31.5 95.0 .0 76.9	AIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backh 125 95.0 .0 76.9	noe FR 250 95.0 .0 76.9	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	4k 95.0 .0	95.0 .0 76.9	76.
CEMP (deg C) 25.0 NIND SPEED (m/sec. 0 CEMP GRAD (deg C, 0 C= 510.000 Y: COURCE: 13 CFS - processing COWER LEVEL DIRECTIVITY	HUN (100m) = 3539 (exter 31.5 95.0 .0 76.9	AIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backh 125 95.0 .0 76.9	noe FR 250 95.0 .0 76.9	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	4k 95.0 .0	95.0 .0 76.9	76.
TEMP (deg C) 25.0 NIND SPEED (m/sec. 0 TEMP GRAD (deg C, 0 K= 510.000 Y: SOURCE: 13 JFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	HUN /100m) = 3539 (exter 31.5 95.0 .0 76.9 12.88 .0 .0 -3.5	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 .0 76.9 18.6 .7 .0 2.6	250 95.0 .0 76.9 21.6 2.3 .0	500 95.0 .0 76.9 24.6 6.1 .0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0	95.0 .0 76.9 25.0 106.5 .0 -3.3	76.9 25.0 300.0
TEMP (deg C) 25.0 WIND SPEED (m/sec .0 TEMP GRAD (deg C, .0 K= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND FOTAL AWT -8.1 SOURCE: 14	HUN (100m) = 3539 (exten 31.5 95.0 0.0 76.9 12.8 0.0 -3.5 8.8	63 95.0 76.9 15.6 2.1	Z= - backl 125 95.0 .0 76.9 18.6 .7 .0 2.6	250 95.0 .0 76.9 21.6 2.3 .0	500 95.0 .0 76.9 24.6 6.1 .0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0	95.0 .0 76.9 25.0 106.5 .0 -3.3	76.9 25.0 300.0 -4.1
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER ABSORPTION TEMP & WIND GROUND TOTAL AWT -8.1 SOURCE: 14	HUN (100m) = 3539 (exten 31.5 95.0 0.0 76.9 12.8 0.0 -3.5 8.8	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backh 125 95.0 .0 76.9 18.6 .7 .0 2.6 -3.8	250 95.0 .0 76.9 21.6 2.3 .0	500 95.0 .0 76.9 24.6 6.1 .0 5	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0	95.0 .0 76.9 25.0 106.5 .0 -3.3	76.9 25.0 300.0
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER ABSORPTION TEMP & WIND GROUND TOTAL AWT -8.1 SOURCE: 14	HUN (c) WIP (100m) = 3539 (exter 31.5 95.0 .0 .0 .0 -3.5 8.8 (exter	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 .0 76.9 18.6 .7 .0 2.6 -3.8	95.0 95.0 0 76.9 21.6 2.3 .0 -3.7	500 95.0 .0 76.9 24.6 6.1 .0 5	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0	95.0 .0 76.9 25.0 106.5 .0 -3.3	76.9 25.0 300.0 -4.3
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER ALIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -8.1 SOURCE: 14 CFS - processing	HUN c) WIR /100m) = 3539 (exter 31.5 95.0 .0 .0 .3.5 8.8 (exter 31.5 94.0	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 .0 76.9 18.6 .7 .0 2.6 -3.8 - FEL 125 100.0	76.9 21.6 2.3 0 -3.7 -2.1	EQUENC 500 95.0 .0 76.9 24.6 6.1 .0 .5 -12.2 EQUENC 500 98.0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5 -16.3	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5 -24.7	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0 -43.6	95.0 .0 76.9 25.0 106.5 .0 -3.3 -100.0-	76.9 25.0 300.0 -4.3
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DIRECTIVITY DIRECTIVITY TOTAL AWT -8.1 SOURCE: 14 CFS - processing	HUN c) WIR /100m) = 3539 (exter 31.5 95.0 .0 .0 .3.5 8.8 (exter 31.5 94.0 .0 .0	MIDITY 50.0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Z= - backl 125 95.0 .0 76.9 18.6 .7 .0 2.6 -3.8 - FEL 125 100.0 .0	76.9 25.0 76.9 21.6 2.3 .0 -3.7 -2.1 FR 250	EQUENC 500 95.0 .0 76.9 24.6 6.1 .0 .5 -12.2 EQUENC 500 98.0 .0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5 -16.3 CY Hz 1k 101.0 .0	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5 -24.7	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0 -43.6	95.0 .0 76.9 25.0 106.5 .0 -3.3 -100.0-	76.9 25.0 300.0 -4.3 -100.0
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -8.1 SOURCE: 14 CFS - processing	HUN (c) WIP (100m) = 3539 (exter 31.5 95.0 .0 76.9 12.88 (exter 31.5 94.0 .0 76.9 13.4	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 76.9 18.6 -7.0 2.6 -3.8 - FEL 125 100.0 76.9 19.4	FR 250 95.0 .0 76.9 21.6 2.3 .0 -3.7 -2.1 FR 250 106.0 .0 76.9 22.4	EQUENC 500 95.0 .0 76.9 24.6 6.1 .0 5 -12.2 EQUENC 500 98.0 .0 76.9 25.0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5 -16.3 CY Hz 1k 101.0 .0 76.9	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5 -24.7	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0 -43.6	95.0 .0 76.9 25.0 106.5 .0 -3.3 -100.0-	76.9 25.0 300.0 -4.5 -100.0
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -8.1 SOURCE: 14 CFS - processing	HUN (c) WIP (100m) = 3539 (exter 31.5 95.0 .0 76.9 12.88 (exter 31.5 94.0 .0 76.9 13.4	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 76.9 18.6 -7.0 2.6 -3.8 - FEL 125 100.0 76.9 19.4	FR 250 95.0 .0 76.9 21.6 2.3 .0 -3.7 -2.1 FR 250 106.0 .0 76.9 22.4	EQUENC 500 95.0 .0 76.9 24.6 6.1 .0 5 -12.2 EQUENC 500 98.0 .0 76.9 25.0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5 -16.3 CY Hz 1k 101.0 .0 76.9	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5 -24.7	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0 -43.6	95.0 .0 76.9 25.0 106.5 .0 -3.3 -100.0-	76.9 25.0 300.0 -4.5 -100.0
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -8.1 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER POWER LEVEL DIRECTIVITY DISTANCE BARRIER	HUN (c) WIP (100m) = 3539 (exter 31.5 95.0 .0 76.9 12.88 (exter 31.5 94.0 .0 76.9 13.4	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 76.9 18.6 -7.0 2.6 -3.8 - FEL 125 100.0 76.9 19.4	FR 250 95.0 .0 76.9 21.6 2.3 .0 -3.7 -2.1 FR 250 106.0 .0 76.9 22.4	EQUENC 500 95.0 .0 76.9 24.6 6.1 .0 5 -12.2 EQUENC 500 98.0 .0 76.9 25.0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5 -16.3 CY Hz 1k 101.0 .0 76.9	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5 -24.7	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0 -43.6	95.0 .0 76.9 25.0 106.5 .0 -3.3 -100.0-	76.9 25.0 300.0 -4.1 -100.0
TEMP (deg C) 25.0 WIND SPEED (m/sec0 TEMP GRAD (deg C, .0 X= 510.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DIRECTIVITY DIRECTIVITY TOTAL AWT -8.1 SOURCE: 14 CFS - processing	HUN (c) WIP (100m) = 3539 (exter 31.5 95.0 .0 76.9 12.88 (exter 31.5 94.0 .0 76.9 13.4	MIDITY 50.0 ND DIR .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	Z= - backl 125 95.0 76.9 18.6 -7.0 2.6 -3.8 - FEL 125 100.0 76.9 19.4	FR 250 95.0 .0 76.9 21.6 2.3 .0 -3.7 -2.1 FR 250 106.0 .0 76.9 22.4	EQUENC 500 95.0 .0 76.9 24.6 6.1 .0 5 -12.2 EQUENC 500 98.0 .0 76.9 25.0	1k 95.0 .0 76.9 25.0 11.9 .0 -2.5 -16.3 CY Hz 1k 101.0 .0 76.9	2k 95.0 .0 76.9 25.0 20.3 .0 -2.5 -24.7	4k 95.0 .0 76.9 25.0 39.6 .0 -3.0 -43.6	95.0 .0 76.9 25.0 106.5 .0 -3.3 -100.0-	76.9 25.0 300.0 -4.5 -100.0

				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0								76.0 .0	
DISTANCE	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
AIR ABSORPTION	.0	.2	.7	2.3	6.2	12.0	20.5	40.0	107.7	300.0
BARRIER AIR ABSORPTION FEMP & WIND GROUND	.0 -3.5	.0 2.2	.0 2.5	.0 -3.7	.0 5	.0 -2.3	.0 -2.4	.0 -2.7	.0 -3.6	.(-1.1
TOTAL AWT -9.3	-2.4	-5.2	-9.0	-1.5	-19.5	-20.7	-32.1	-57.3-	-100.0-	-100.0
SOURCE : 16 CFS - curing (int	enral)	- con	nveyor	belt /	motor	1				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	. 0
DISTANCE BARRIER	77.1 12.7	77.1 15.4	77.1 18 4	77.1 21.4	77.1 24.4	77.1 25.0	77.1 25.0	77.1 25.0	77.1 25.0	77.1 25.0
AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.3	6.2	12.1	20.6	40.2	108.2	300.0
FEMP & WIND GROUND	.0 -3.7	.0 1.8	.0 3.8	.0 -3.5	.0 5	.0 -3.0	.0 -2.0	.0 -2.2	.0 -3.6	-2.4
TOTAL AWT -25.5	-9.1	-1.5	-20.0	-23.3	-35.2	-43.1	-55.6	-78.0-	-100.0-	-100.0
SOURCE : 17 CFS - curing (int	enral)	- con	nveyor	belt /	motor	2				
				FR	EQUENC	Y Hz_				
			125							
POWER LEVEL DIRECTIVITY										
BARRIER	77.1 12.6	15.2	18.2	21.2	24.2	25.0	25.0	25.0	25.0	25.0
AIR ABSORPTION	. 0	.2	. 7	2.3	6.2	12.1	20.7	40.4	108.7	300.0
AIR ABSORPTION FEMP & WIND GROUND	-3.7	1.9	3.7	-3.5	4	-3.0	-1.9	-2.5	-2.0	-2.4
TOTAL AWT -25.3	-9.1	-1.3	-19.7	-23.1	-35.1	-43.2	-55.9	-78.0-	-100.0-	-100.0
SOURCE : 18	enral)	- con	veyor	belt /	motor	3				
CFS - curing (int					HOLLENIC					
urs - curing (int				FR	FOOFING	Y HZ				
ers - curing (int	31.5		125						8k	16k
POWER LEVEL	77 N	63 93 N	125	250 74 0	500 72 0	1k	2k	4k	58.0	(
POWER LEVEL DIRECTIVITY DISTANCE	77.0 .0	63 93.0 .0	125 80.0 .0	250 74.0 .0	500 72.0 .0 77.1	1k 68.0 .0	2k 65.0 .0	4k 62.0 .0	58.0 .0	. (. (77. 1
POWER LEVEL DIRECTIVITY DISTANCE BARRIER	77.0 .0 77.1 11.0	63 93.0 .0 77.1 12.7	125 80.0 .0 77.1 15.4	250 74.0 .0 77.1 18.4	500 72.0 .0 77.1 21.4	1k 68.0 .0 77.1 24.4	2k 65.0 .0 77.1 25.0	4k 62.0 .0 77.1 25.0	58.0 .0 77.1 25.0	.(.(77.1 25.(
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	77.0 .0 77.1 11.0 .0	63 93.0 .0 77.1 12.7 .2	125 80.0 .0 77.1 15.4	250 74.0 .0 77.1 18.4 2.3 .0	500 72.0 .0 77.1 21.4 6.2 .0	1k 68.0 .0 77.1 24.4 12.1 .0	2k 65.0 .0 77.1 25.0 20.7 .0	4k 62.0 .0 77.1 25.0 40.4 .0	58.0 .0 77.1 25.0 108.7	77.1 25.0 300.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	77.0 .0 77.1 11.0 .0 .0	63 93.0 .0 77.1 12.7 .2 .0 2.6	125 80.0 .0 77.1 15.4 .7 .0	250 74.0 .0 77.1 18.4 2.3 .0 -3.4	500 72.0 .0 77.1 21.4 6.2 .0 -1.4	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3	58.0 .0 77.1 25.0 108.7 .0 -2.8	.0 .0 77.1 25.0 300.0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.9 SOURCE: 19	77.0 .0 77.1 11.0 .0 .0 -3.3	63 93.0 .0 77.1 12.7 .2 .0 2.6	125 80.0 .0 77.1 15.4 .7 .0 1.4	250 74.0 .0 77.1 18.4 2.3 .0 -3.4	500 72.0 .0 77.1 21.4 6.2 .0 -1.4	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3	58.0 .0 77.1 25.0 108.7 .0 -2.8	.0 .0 77.1 25.0 300.0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.9	77.0 .0 77.1 11.0 .0 .0 -3.3	63 93.0 .0 77.1 12.7 .2 .0 2.6	125 80.0 .0 77.1 15.4 .7 .0 1.4	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4	72.0 .0 77.1 21.4 6.2 .0 -1.4	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3	58.0 .0 77.1 25.0 108.7 .0 -2.8	77.1 25.0 300.0 -3.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.9 SOURCE: 19	77.0 .0 77.1 11.0 .0 .0 -3.3 -7.8	63 93.0 .0 77.1 12.7 .2 .0 2.6 .3	125 80.0 .0 77.1 15.4 .7 .0 1.4 -14.6	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4 belt /	72.0 .0 77.1 21.4 6.2 .0 -1.4 -31.4 motor	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4 -44.2	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3	58.0 .0 77.1 25.0 108.7 .0 -2.8	.0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION FEMP & WIND GROUND TOTAL AWT -22.9 SOURCE : 19 CFS - curing (int	77.0 .0 77.1 11.0 .0 .0 -3.3 -7.8 eenral)	63 93.0 .0 77.1 12.7 .2 .0 2.6 .3 - con	125 80.0 .0 77.1 15.4 .7 .0 1.4 -14.6	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4 belt /FR 250 74.0	72.0 .0 77.1 21.4 6.2 .0 -1.4 -31.4 motor 500 72.0	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4 -44.2 -44.2 1k 68.0	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6 -55.2	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3 -77.1	58.0 .0 77.1 25.0 108.7 .0 -2.8 -100.0-	.(.(.(.(.25.(.300.(3.(100.(
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION FEMP & WIND GROUND TOTAL AWT -22.9 SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE	77.0 .0 77.1 11.0 .0 .0 -3.3 -7.8 enral) 31.5 77.0 .0	63 93.0 .0 77.1 12.7 .0 2.6 .3 - con 63 93.0 .0 77.0	125 80.0 .0 77.1 15.4 .7 .0 1.4 -14.6 aveyor 125 80.0 .0 77.0	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4 belt / FR 250 74.0 .0 77.0	72.0 .0 77.1 21.4 6.2 .0 -1.4 -31.4 motor 500 72.0 .0	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4 -44.2 1k 68.0 .0 77.0	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6 -55.2 2k 65.0 .0 77.0	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3 -77.1 4k 62.0 .0 77.0	58.0 .0 77.1 25.0 108.7 .0 -2.8 -100.0-	.(.(.(.25.(300.(.(3.(100.(.(.(.(.(.(.(.(.(.(.(.(.(
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION FEMP & WIND GROUND FOTAL AWT -22.9 SOURCE : 19 JEFS - curing (int	77.0 .0 77.1 11.0 .0 .0 -3.3 -7.8 enral) 31.5 77.0 .0	63 93.0 .0 77.1 12.7 .2 .0 2.6 .3 - con 63 93.0 .0 77.0 12.0	125 80.0 .0 77.1 15.4 .7 .0 1.4 -14.6 aveyor 125 80.0 .0 77.0 13.8	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4 belt / FR 250 74.0 .0 77.0 16.8	500 72.0 .0 77.1 21.4 6.2 .0 -1.4 -31.4 motor 500 72.0 .0 77.0 19.8	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4 -44.2 -44.2 1k 68.0 .0 77.0 22.8	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6 -55.2 2k 65.0 .0 77.0 25.0	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3 -77.1 4k 62.0 .0 77.0 25.0	58.0 .0 77.1 25.0 108.7 .0 -2.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.9 SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER	77.0 .0 77.1 11.0 .0 .0 -3.3 -7.8 enral) 31.5 77.0 .0	63 93.0 .0 77.1 12.7 .2 .0 2.6 .3 - con 63 93.0 .0 77.0 12.0	125 80.0 .0 77.1 15.4 .7 .0 1.4 -14.6 aveyor 125 80.0 .0 77.0 13.8	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4 belt / FR 250 74.0 .0 77.0 16.8	500 72.0 .0 77.1 21.4 6.2 .0 -1.4 -31.4 motor 500 72.0 .0 77.0 19.8	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4 -44.2 -44.2 1k 68.0 .0 77.0 22.8	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6 -55.2 2k 65.0 .0 77.0 25.0	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3 -77.1 4k 62.0 .0 77.0 25.0	58.0 .0 77.1 25.0 108.7 .0 -2.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION FEMP & WIND GROUND TOTAL AWT -22.9 SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE	77.0 .0 .0 .0 .0 .0 .0 .0 .3.3 .7.8 .eenral) .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 93.0 .0 77.1 12.7 .2 .0 2.6 .3 - con 63 93.0 .0 77.0 12.0 .2 .0 2.8	125 80.0 .0 77.1 15.4 .7 .0 1.4 -14.6 aveyor 125 80.0 .0 77.0 13.8 .7 .0 .9	250 74.0 .0 77.1 18.4 2.3 .0 -3.4 -20.4 belt / FR 250 74.0 .0 77.0 16.8 2.3 .0 -3.2	500 72.0 .0 77.1 21.4 6.2 .0 -1.4 -31.4 motor 500 72.0 .0 77.0 19.8 6.2 .0 -1.5	1k 68.0 .0 77.1 24.4 12.1 .0 -1.4 -44.2 -44.2 1k 68.0 .0 77.0 22.8 12.0 .0 -1.9	2k 65.0 .0 77.1 25.0 20.7 .0 -2.6 -55.2 2k 65.0 .0 77.0 25.0 20.6 .0 -1.8	4k 62.0 .0 77.1 25.0 40.4 .0 -3.3 -77.1 4k 62.0 .0 77.0 25.0 40.2 .0 -3.1	58.0 .0 77.1 25.0 108.7 .0 -2.8 -100.0-	16k .(77.1 .25.(300.(100.(100.(100.(100.(100.(100.(100.(100.(100.(100.(100.(100.(

				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.9 11.7 .0	76.9 13.3 .2	76.9 16.3 .7	76.9 19.3 2.3	76.9 22.3 6.1	76.9 25.0	76.9 25.0 20.3	76.9 25.0 39.8	76.9 25.0 106.9	76.9 25.0 300.0
TOTAL AWT -23.4	-8.3	.0	-15.6	-21.1	-32.2	-44.5	-54.5	-78.5	-100.0	-100.0
SOURCE : 21 CFS - curing (int	cenral	- cor	nveyor	belt ,	/ moto	r 6				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	. 0	. 2	. 7	2.3	6.1	76.9 24.7 11.8 .0 -1.4	20.2	39.5	106.1	300.0
TOTAL AWT -22.8	-7.7	. 6	-14.6	-20.4	-31.3	-43.9	-54.5	-76.1-	-100.0	-100.0
SOURCE : 22 CFS - processing	(exter	rnal) -	- RTT r	manv						
						CY Hz_				
DOMED I EVEI						1k				
POWER LEVEL DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	5.0	5.0	4 9	4 8	4 2	76.2 3.0 11.0 .0 -1.0	1 4	0	0	Ω
TOTAL AWT 20.2										
SOURCE : 23 CFS - processing		nal) -	- RTT 1	revers	ing					
				FI	REQUEN	CY Hz				
						1k				
POWER LEVEL DIRECTIVITY	.0	.0	.0	. 0	.0	.0	. 0	.0	. 0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 5.0 .0 .0 -4.3	77.0 4.9 .2 .0	77.0 4.9 .7 .0 8.2	77.0 4.7 2.3 .0 7	77.0 3.9 6.2 .0 -4.5	77.0 2.6 12.0 .0 9	77.0 .8 20.4 .0 -2.4	77.0 .0 39.9 .0 -2.6	77.0 .0 107.3 .0 -2.5	77.0 .0 300.0 .0 -3.9
TOTAL AWT 6.4	-20.7	-7.4	-15.7	-4.3	6.5	2.4	-4.8	-27.3	-100.0	-100.0
SOURCE : 24 CFS - processing	(exter	nal) -	- dust	colled	ctor /	fan				
						CY Hz				
DOMED I EVEL						1k				
POWER LEVEL DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.8 5.0 .0 .0 -4.3	76.8 4.9 .2 .0	76.8 4.9 .7 .0 8.1	76.8 4.7 2.3 .0 7	76.8 4.0 6.1 .0 -4.5	76.8 2.7 11.7 .0 -1.0	76.8 .9 20.0 .0 -2.3	76.8 .0 39.2 .0 -2.6	76.8 .0 105.3 .0 -2.2	76.8 .0 300.0 .0 -3.1
TOTAL AWT 23.9	22.4	19.8	15.5	25.9	25.6	10.7	-1.5	-24.4	-96.9	-100.0
SOURCE : 25 CFS - processing	(exter	nal) -								
	31 5	63				CY Hz 1k			8k	16k
	21.3	U.S	143	∪∪ت	200	TΥ	Δħ	ıν	ΛO	T0V

POWER LEVEL 101.0 100.0 99.0 97.0 93.0 93.0 91.0 88.0 83.0 . 0 DIRECTIVITY . 0 .0 . 0 . 0 .0 . 0 DISTANCE 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 BARRIER 12.9 18.8 21.8 24.8 25.0 25.0 25.0 25.0 AIR ABSORPTION .0 . 2 . 7 2.3 6.2 11.9 20.4 39.8 107.2 300.0 . 0 . 0 . 0 TEMP & WIND .0 .0 .0 . 0 . 0 . 0 . 0 -1.3 -2.8 GROUND -3.4 2.5 -3.5 -1.3 -1.5 -2.2 -2.1 2.4 -10.7 -19.4 -28.5 -52.3-100.0-100.0 TOTAL AWT -4.3 16.1 7.5 4.0 SOURCE : 26 CFS - processing (external) - aggregate unload _FREQUENCY Hz_ 31.5 63 125 250 500 1k 16k POWER LEVEL 110.0 111.0 102.0 100.0 101.0 104.0 101.0 97.0 105.0 .0 DIRECTIVITY DISTANCE 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9 5.0 4.7 4.0 BARRIER 4.9 4.9 .0 AIR ABSORPTION .2 .7 2.3 6.1 11.8 20.2 39.5 106.1 300.0 TEMP & WIND .0 .0 . 0 .0 .0 .0 . 0 .0 .0 .0 8.2 -4.5 -2.5 -2.6 .3 32.4 28.7 11.4 16.8 18.6 13.5 5.5 -16.7 -75.4-100.0 TOTAL AWT 18.5 SOURCE : 27 CFS - processing (external) - silo vent 1 FREQUENCY Hz_ 63 125 250 500 POWER LEVEL 84.0 89.0 88.0 82.0 86.0 81.0 74.0 69.0 63.0 .0 DIRECTIVITY .0 . 0 .0 .0 . 0 . 0 . 0 .0 .0 76.8 DISTANCE 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 1.2 BARRIER 5.0 4.9 4.7 4.1 2.9 .0 .0 . 0 .0 . 2 AIR ABSORPTION 2.3 6.1 11.7 20.1 39.2 105.4 300.0 TEMP & WIND .0 .0 .0 . 0 .0 .0 . 0 . 0 . 0 .0 -.5 -2.3 -2.4 GROUND 2.9 -3.6 -3.7 5.9 2.7 -6.4 -20.5 -44.2-100.0-100.0 TOTAL AWT 3.7 . 9 9.4 -1.5 SOURCE : 28 CFS - processing (external) - silo vent 2 _FREQUENCY Hz_ 31.5 63 125 250 500 1k 2k 8k 16k 4k POWER LEVEL 84 0 89 N 82 0 86 0 88 0 81 0 74 0 69 N 63 0 Ω DIRECTIVITY .0 . 0 .0 .0 . 0 .0 . 0 .0 . 0 . 0 76.8 DISTANCE 76 8 76 8 76 8 76 8 76 8 76 8 76 8 76 8 76 8 BARRIER 5.0 4.1 2.9 1.2 4.9 4.8 .0 .0 . 0 . 0 . 7 .0 . 2 AIR ABSORPTION 2.3 6.1 11.8 20.1 39.3 105.6 300.0 TEMP & WIND Ω Ω Ω Ω .0 Ω .0 Ω Ω Ω -3.6 -2.4 -2.4 -2.9 GROUND -3.7 1.7 2.9 TOTAL AWT 2 7 -6 4 -20 5 -44 3-100 0-100 0 3 7 5 9 -1 6 8 9 3 TOTAL AWT 26.3 36.6 34.3 18.9 27.8 27.6 16.9 8.4 -13.2 -74.7 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE FILENAMES C:\ENM\SOURCES\2118506A\506A-3 2118506A.GEN C:\ENM\MAPS\2118506A\506A OUT1 file and RNK1 file HUMIDITY (%) TEMP (deg C) 25.0 50.0 WIND SPEED (m/sec) WIND DIR (deg) .0 . 0 TEMP GRAD (deg C/100m) . 0 X= 827.000 Y= 3006.000 7.= 22,200

SOURCE :

13 CFS - processing (external) - backhoe

				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY				95.0						
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	12.9 .0 .0	15.9 .1 .0	18.9 .5 .0	74.3 21.9 1.7 .0 1.5	24.9 4.6 .0	25.0 8.8 .0	25.0 15.2 .0	25.0 30.2 .0	25.0 79.8 .0	25.0 264.6 .0
TOTAL AWT -4.8	12.4	5.5	-7.4	-4.3	-4.4	-12.1	-16.5	-31.3	-81.3-	-100.0
SOURCE : 14 CFS - processing	(exter	nal)	- FEL							
				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	94.0	100.0	100.0	106.0	98.0	101.0	98.0	92.0	86.0	.0
BARRIER AIR ABSORPTION TEMP & WIND	13.6 .0 .0 -4.7	16.6 .1 .0 -1.0	19.6 .5 .0 8.9	74.3 22.6 1.7 .0 2.1	25.0 4.6 .0 -4.1	25.0 8.8 .0 -1.9	25.0 15.2 .0 -2.6	25.0 30.2 .0 -3.1	25.0 79.8 .0 -2.8	25.0 264.6 .0 -1.1
CFS - curing (int	enral)									
				FR						
DOMED I EVEL				250						
POWER LEVEL DIRECTIVITY				96.0						
BARRIER AIR ABSORPTION TEMP & WIND	13.1	16.1 .1 .0	19.0 .5 .0	74.3 22.1 1.7 .0 1.3	25.0 4.6 .0	25.0 8.9 .0	25.0 15.3 .0	25.0 30.4 .0	25.0 80.5 .0	25.0 266.8 .0
TOTAL AWT -8.9	1.2	. 4	-12.4	-3.4	-11.6	-16.5	-23.5	-44.9-	100.0	-100.0
SOURCE : 16 CFS - curing (int	enral)	- coi	nveyor							
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY				74.0						
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -21.4	12.8 .0 .0 -4.6	15.7 .1 .0 9	18.7 .5 .0 8.4	74.4 21.7 1.7 .0 1.0	24.7 4.6 .0 -4.4	25.0 8.9 .0 4	25.0 15.4 .0 -3.3	25.0 30.5 .0 -2.2	25.0 80.8 .0 -2.4	25.0 267.9 .0 -3.8
SOURCE : 17										
CFS - curing (int										
				FR					8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	12.7 .0 .0 -4.6	15.5 .1 .0 8	18.4 .5 .0 8.4	74.4 21.5 1.7 .0 .8	24.5 4.6 .0 -4.4	25.0 9.0 .0 3	25.0 15.4 .0 -3.4	25.0 30.6 .0 -2.0	25.0 81.1 .0 -2.9	25.0 268.9 .0 -2.2
TOTAL AWT -21.2	-5.6	3.8	-21.7	-24.4	-27.1	-40.1	-46.5	-66.0-	-100.0-	-100.0
SOURCE: 18 CFS - curing (int	enral)	- coi	nveyor	belt /	motor	3				

____FREQUENCY Hz___

	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0		65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -16.7	74.4 8.8 .0 .0									
TOTAL AWT -16.7	-1.9	7.6	-13.9	-15.4	-22.8	-34.8	-46.9	-65.4-	100.0-	-100.0
SOURCE : 19 CFS - curing (in	tenral') – ຕວາ	nvevor	belt.	/ moto	r 4				
, ,			_			CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	10.3	12.3 .1 .0	14.4 .5 .0	17.5 1.7 .0	20.5 4.6 .0	74.3 23.5 8.9 .0 -2.0	25.0 15.3 .0	25.0 30.4 .0	25.0 80.3 .0	25.0 266.3 .0
TOTAL AWT -18.0	-3.2	6.6	-16.3	-18.1	-23.6	-36.7	-47.6	-65.6-	100.0-	-100.0
SOURCE : 20 CFS - curing (in) - CO1	nveyor	belt ,	/ moto	r 5				
						CY Hz_				
DOWER I THE						1k				
POWER LEVEL DIRECTIVITY	.0	93.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND		.1	.5	1.7	4.5	74.2 25.0 8.8 .0 8	15.1	30.1	79.4	263.2
TOTAL AWT -19.4	-4.7	5.5	-19.4	-21.5	-25.1	-39.2	-46.9	-64.7-	-100.0-	-100.0
TOTAL AWT -19.4 SOURCE : 21 CFS - curing (in							-46.9	-64.7-	-100.0-	-100.0
SOURCE : 21			nveyor	belt ,	/ moto				-100.0-	-100.0
SOURCE : 21 CFS - curing (in	31.5	63	nveyor	belt FI	/ moto: REQUENC	r 6 CY Hz_ 1k	2k	4k	8k	
SOURCE : 21 CFS - curing (in	31.5 77.0	63 93.0	125 80.0	belt FI 250 74.0 .0	/ moto: REQUENC 500 72.0 .0	r 6 CY Hz 1k 68.0 .0	2k 65.0 .0	4k 62.0 .0	8k 58.0	16k .0
SOURCE : 21 CFS - curing (in	31.5 77.0 .0	63 93.0 .0 74.2	125 80.0 .0 74.2	belt FI 250 74.0 .0 74.2	/ moto: REQUENC 500 72.0 .0 74.2	1k 68.0 .0 74.2	2k 65.0 .0 74.2	4k 62.0 .0 74.2	8k 58.0 .0	16k .0 .0 .0 .74.2
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIED	31.5 77.0 .0 74.2 11.5 .0 .0	63 93.0 .0 74.2 13.2 .1 .0	125 80.0 .0 74.2 16.1 .5 .0	FI 250 74.0 .0 74.2 19.1 1.7 .06	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3	1k 68.0 0 74.2 25.0 8.7 .0 -1.2	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7	8k 58.0 .0 74.2 25.0 78.9 .0	16k .0 .0 74.2 25.0 261.5 .0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5	63 93.0 .0 74.2 13.2 .1 .0 6	125 80.0 .0 74.2 16.1 .5 .0 7.6	FI 250 74.0 .0 74.2 19.1 1.7 .06	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3	1k 68.0 .0 74.2 25.0 8.7 .0 -1.2 -38.6	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7	8k 58.0 .0 74.2 25.0 78.9 .0 -3.4	16k .0 .0 74.2 25.0 261.5 .0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5	63 93.0 .0 74.2 13.2 .1 .0 6	125 80.0 .0 74.2 16.1 .5 .0 7.6	belt FFI 250 74.0 .0 74.2 19.1 1.7 .06 -20.4 manvFFI	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3	r 6 CY Hz 1k 68.0 0 74.2 25.0 8.7 0 -1.2 -38.6	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7	8k 58.0 0 74.2 25.0 78.9 0 -3.4	16k .0 .0 74.2 25.0 261.5 .0 -2.5
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5 -4.2 (exter	63 93.0 .0 74.2 13.2 .1 .0 6 6.1	125 80.0 .0 74.2 16.1 .5 .0 7.6	belt FI 250 74.0 .0 74.2 19.1 1.7 .06 -20.4 manv	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5	2	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8 -47.4	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3-	8k 58.0 .0 74.2 25.0 78.9 .0 -3.4	16k .0 .0 74.2 25.0 261.5 .0 -2.5
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing POWER LEVEL DIRECTIVITY	31.5 77.0 0 74.2 11.5 0 0 -4.5 -4.2 (exter	63 93.0 .0 74.2 13.2 .1 .0 6 6.1	125 80.0 .0 74.2 16.1 .55 .0 7.6 -18.4 - RTT t	FI 250 74.0 .0 74.2 19.1 1.7 7 .06 -20.4 manv FI 250 104.0 .0	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5 REQUENC 500 103.0 .0	1k 68.0 .0 .0 .0 .74.2 .25.0 .8.7 .0 .1.238.6 1k 1k 1k	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8 -47.4	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3-	8k 58.0 .0 74.2 25.0 78.9 .0 -3.4 -100.0-	16k .0 .0 74.2 25.0 261.5 .0 -2.5 -100.0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing POWER LEVEL	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5 -4.2 (exter	63 93.0 .0 74.2 13.2 .1 .0 .6 6.1 cnal) 63 114.0 .0 73.3	125 80.0 .0 74.2 16.1 .5 .0 7.6 -18.4 - RTT t 125 103.0 .0 73.3	belt FFI 250 74.0 .0 74.2 19.1 1.7 .06 -20.4 manv FFI 250 104.0 .0 73.3	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5 REQUENC 500 103.0 .0 73.3	1k 68.0 .0 .0 .0 .74.2 .25.0 .8.7 .0 .1.238.6 1k 1k 1k	2k 65.0 .0 74.2 25.0 15.0 .1.8 -47.4 2k 98.0 .0 73.3 .0	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3-	8k 58.0 .0 74.2 25.0 78.9 .0 -3.4 -100.0-	16k .0 .0 74.2 25.0 261.5 .0 -2.5 -100.0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5 -4.2 (exter	63 93.0 0 74.2 13.2 1.0 06 6.1 63 114.0 0 73.3 0 0 1.0 0 -4.1	125 80.0 .0 74.2 16.1 .5 .0 7.6 -18.4 - RTT t 125 103.0 .0 73.3 .0 .0 4.0 3.6	belt FI 250 74.0 .0 74.2 19.1 1.7 .066 -20.4 manv FI 250 73.3 .0 .0 1.5 .0 15.0	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5 REQUENC 500 103.0 .0 4.1 .0 15.0	2Y Hz	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8 -47.4 2k 98.0 .0 73.3 .0 13.6 .0 13.9	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3- 4k 94.0 .0 73.3 .0 27.3 .0 7.9	8k 58.0 74.2 25.0 78.9 .0 -3.4 -100.0-	16k .0 .0 .0 .250 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5 -4.2 (exter 31.5 111.0 .0 73.3 .0 .0 .0 .0 .0 43.5	63 93.0 .0 74.2 13.2 .1 .0 .6 6.1 cnal) -	125 80.0 .0 74.2 16.1 .5 .0 7.6 -18.4 - RTT t 125 103.0 .0 73.3 .0 .4 .0 3.6 25.7	belt FI 250 74.0 .0 74.2 19.1 1.7 .0 -6 -20.4 manv FI 250 73.3 .0 1.5 .0 15.0 14.2	7 moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5 REQUENC 500 103.0 .0 73.3 .0 4.1 .0 15.0	2Y Hz	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8 -47.4 2k 98.0 .0 73.3 .0 13.6 .0 13.9	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3- 4k 94.0 .0 73.3 .0 27.3 .0 7.9	8k 58.0 74.2 25.0 78.9 .0 -3.4 -100.0-	16k .0 .0 .0 .250 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 19.7 SOURCE : 23	31.5 77.0 .0 74.2 11.5 .0 .0 -4.5 -4.2 (external) 31.5 111.0 .0 73.3 .0 .0 .0 .0 -5.8 43.5	63 93.0 .0 74.2 13.2 .1 .0 .6 6.1 cnal) 73.3 .0 .1 .0 .4.1 44.7	125 80.0 .0 74.2 16.1 .5.0 7.6 -18.4 - RTT t 125 103.0 .0 73.3 .0 .4 .0 3.6 25.7	FI 250 74.0 .0 74.2 19.1 1.7 .06 -20.4 manv FI 250 104.0 .0 73.3 .0 1.5 5 .0 15.0 14.2 revers:	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5 REQUENC 500 103.0 .0 73.3 .0 4.1 .0 15.0 10.6	2Y Hz	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8 -47.4 2k 98.0 .0 73.3 .0 13.6 .0 13.9	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3- 4k 94.0 .0 73.3 .0 27.3 .0 7.9	8k 58.0 .0 74.2 25.0 78.9 .0 -3.4 -100.0- 8k 88.0 .0 73.3 .0 71.8 .0 1.9	16k .0 .0 .0 .250 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
SOURCE : 21 CFS - curing (in POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.8 SOURCE : 22 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 19.7 SOURCE : 23	31.5 77.0 0 74.2 11.5 0 0 -4.5 -4.2 (external) 31.5 111.0 0 73.3 0 0 0 -5.8 43.5	63 93.0 .0 74.2 13.2 .1 .0 .6 6.1 63 114.0 .0 73.3 .0 .1 .0 44.7	125 80.0 .0 74.2 16.1 .5 .0 7.6 -18.4 - RTT t 125 103.0 .0 73.3 .0 .4 .0 3.66 25.7	belt	/ moto: REQUENC 500 72.0 .0 74.2 22.2 4.5 .0 -4.3 -24.5 REQUENC 500 73.3 .0 4.1 .0 15.0 10.6 ing REQUENC	TK 6 CY Hz	2k 65.0 .0 74.2 25.0 15.0 .0 -1.8 -47.4 2k 98.0 .0 13.6 .0 13.9 -2.8	4k 62.0 .0 74.2 25.0 29.9 .0 -2.7 -64.3- 4k 94.0 .0 73.3 .0 27.3 .0 7.9	8k 58.0 .0 74.2 25.0 78.9 .0 -3.4 -100.0-	16k .0 .0 .74.2 .25.0 .261.5 .0 .2.5 -100.0 16k .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

DIRECTIVITY	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0
DISTANCE				74.4						
DADDTED	0	0	0	0	0	0	0	0	0	0
AIR ABSORPTION TEMP & WIND GROUND	.0	.0	.0	.0 15.0	.0	.0	.0	.0	.0	.0
TOTAL AWT -2.7										
SOURCE : 24										
CFS - processing		nal) -	- dust	colle	ctor /	fan				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
	. 0	.0	.0	. 0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	74.1	74.1	74.1	74.1 18.4	74.1	74.1	74.1	74.1	74.1	74.1
AIR ABSORPTION TEMP & WIND GROUND	.0	.1	.5	1.7	4.5	8.7	14.9	29.7	78.6	260.2
TEMP & WIND GROUND	.0 -4.5	.0 4	.0 7.6	. 0 7	.0 -4.3	.0 -1.4	.0 -1.7	.0 -2.9	.0 -3.5	.0 -3.0
TOTAL AWT 11.3	19.3	15.4	8.4	15.6	12.3	-4.8	-18.4	-37.0	-91.2-	-100.0
SOURCE : 25										
CFS - processing	(exte									
				FI						
				250						
POWER LEVEL DIRECTIVITY										
DISTANCE BARRIER	74.3	74.3	74.3	74.3 17.4	74.3	74.3	74.3	74.3	74.3	74.3 25.0
AIR ABSORPTION TEMP & WIND	.0	.1	.5	1.7	4.6	8.9	15.3	30.4	80.3	266.1
TEMP & WIND GROUND	.0 -4.4	.0 4	.0 7.3	.0 -1.1	.0 -4.0	.0 -1.8	.0 -1.7	.0 -2.9	.0 -3.0	.0 -4.0
TOTAL AWT6										
SOURCE : 26										
SOURCE : 26 CFS - processing		nal) -	- aggre			TV H2				
	(exter			FI	REQUEN			4k	8k	
CFS - processing	31.5	63	125	FI	REQUENC 500	1k	2k			
CFS - processing POWER LEVEL DIRECTIVITY	31.5 110.0	63 111.0 .0	125 102.0 .0	250 100.0	500 101.0	1k 104.0 .0	2k 101.0 .0	97.0	105.0	.0
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0	63 111.0 .0	125 102.0 .0	250 100.0 .0	500 101.0 .0	1k 104.0 .0	2k 101.0 .0	97.0 .0	105.0 .0	.0 .0
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0 74.2	63 111.0 .0 74.2	125 102.0 .0 74.2	250 100.0 .0 74.2	500 101.0 .0 74.2	1k 104.0 .0 74.2	2k 101.0 .0 74.2	97.0 .0 74.2	105.0 .0 74.2	.0 .0 74.2
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 110.0 .0 74.2	63 111.0 .0 74.2	125 102.0 .0 74.2	250 100.0 .0 74.2	500 101.0 .0 74.2	1k 104.0 .0 74.2	2k 101.0 .0 74.2	97.0 .0 74.2	105.0 .0 74.2	.0 .0 74.2
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 110.0 .0 74.2 .0 .0 .0 -5.8	63 111.0 .0 74.2 .0 .1 .0 -3.9	125 102.0 .0 74.2 .0 .5 .0 4.3	74.2 0 1.7 .0 15.0	500 101.0 .0 74.2 .0 4.5 .0	1k 104.0 .0 74.2 .0 8.8 .0 15.0	2k 101.0 .0 74.2 .0 15.1 .0 14.5	97.0 .0 74.2 .0 30.1 .0 8.9	105.0 .0 74.2 .0 79.4 .0 2.9	.0 .0 74.2 .0 263.3 .0 -2.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5	63 111.0 .0 74.2 .0 .1 .0 -3.9	125 102.0 .0 74.2 .0 .5 .0 4.3	74.2 0 1.7 .0 15.0	500 101.0 .0 74.2 .0 4.5 .0	1k 104.0 .0 74.2 .0 8.8 .0 15.0	2k 101.0 .0 74.2 .0 15.1 .0 14.5	97.0 .0 74.2 .0 30.1 .0 8.9	105.0 .0 74.2 .0 79.4 .0 2.9	.0 .0 74.2 .0 263.3 .0 -2.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2	31.5 110.0 .0 74.2 .0 .0 .0 .0 -5.8 41.5	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0	74.2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	500 101.0 .0 74.2 .0 4.5 .0 15.0	1k 104.0 .0 74.2 .0 8.8 .0 15.0	2k 101.0 .0 74.2 .0 15.1 .0 14.5	97.0 .0 74.2 .0 30.1 .0 8.9	105.0 .0 74.2 .0 79.4 .0 2.9	.0 .0 74.2 .0 263.3 .0 -2.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE : 27	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0	FF 250 100.0 .0 74.2 .0 1.7 .0 15.0 9.1 vent 1	74.2 0 4.5 0 15.0 7.2	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0	2k 101.0 .0 74.2 .0 15.1 .0 14.5	97.0 .0 74.2 .0 30.1 .0 8.9	105.0 .0 74.2 .0 79.4 .0 2.9	.0 .0 74.2 .0 263.3 .0 -2.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE : 27 CFS - processing	31.5 110.0 .0 74.2 .0 .0 .0 .0 -5.8 41.5 (exter	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0 - silo	FI 250 100.0 0 0 74.2 0 1.7 0 15.0 9.1 vent 1	500 101.0 .0 74.2 .0 4.5 .0 15.0 7.2	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8	97.0 .0 74.2 .0 30.1 .0 8.9	105.0 .0 74.2 .0 79.4 .0 2.9	.0 .0 .0 74.2 .0 263.3 .0 -2.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE : 27 CFS - processing POWER LEVEL DIRECTIVITY	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5 (extendar)	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cnal) -	125 102.0	FI 250 100.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74.2 .00 4.5 .00 77.2 L REQUENC 88.0 .0	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6	.0 .0 .0 .0 .0 .0 .0 -2.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE : 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0 74.2 .0 .0 .0 .0 -5.8 41.5 (exterior) 31.5 84.0 .0 74.1	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cmal) -	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0 - silo 125 86.0 .0 74.1	FI 250 100.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74.2 .0 4.5 .0 15.0 7.2 L REQUENC 500 88.0 .0 74.1	1k 104.0 .0 74.2 .0 8.8 8.0 15.0 6.0 CY Hz 1k 81.0 .0 74.1	2k 101.0 .0 74.2 .0 15.1 .00 14.5 -2.8 2k 74.0 .0 74.1	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6	.0 .0 .0 74.2 .0 263.3 .0 -2.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5 (exter	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 63 82.0 .0 74.1 .0	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0 - silo 125 86.0 .0 74.1 .0	FI 250 100.0 0 1.7 .0 15.0 15.0 89.0 0 74.1 .0 1.7 1.0 1.7	74.2 .00 15.00 74.2 .00 15.00 7.2 1 1 88.0 .00 74.1 .00 4.5	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0 CY Hz 1k 81.0 .0 74.1 .0 8.7	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 74.1 .0 15.0	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 110.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cnal) - 63 82.0 .0 74.1 .0 .1 .0	125 102.0	FI 250 100.0 0 74.2 0 15.0 15.0 9.1 vent 1 250 89.0 0 74.1 0 1.7 7 0	74.2 .00 4.5 .00 77.2 L REQUENC 500 88.0 .0 74.1 .0 4.5	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0 CY Hz 1k 81.0 .0 74.1 .0 8.7	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 74.1 .0 15.0	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6 8k 63.0 .0 74.1 .0 78.7	.0 .0 .0 .0 .0 .0 .0 .2.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE : 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 110.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cnal) - 63 82.0 .0 74.1 .0 .0 -1.9	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0 - silo 125 86.0 .0 74.1 .0 .5 .0 7.4	FI 250 100.0 .0 .0 .0 .1.7 .0 .0 .1.7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	74.2 101.0 0 74.2 15.0 7.2 15.0 7.2 10 88.0 0 74.1 0 4.5 0 0 2.2	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0 CY Hz 1k 81.0 .0 74.1 .0 8.7 .0 -3.7	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 74.1 .0 15.0 .0 -4.3	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8 .0 -2.6	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.5 SOURCE: 28	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5 (exter	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cnal) - 63 82.0 .0 74.1 .0 .1 .0 -1.9 9.6	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0 - silo 125 86.0 .0 74.1 .0 .5 .0 7.4 3.9	FI 250 100.0 0 1.7 0 1.7 0 0 1.7 0 0 1.7 0 0 10.9 2.3	74.2 0.0 15.0 74.2 0.0 15.0 7.2 15.0 7.2 10 88.0 0.0 74.1 0.0 4.5 0.0 2.2	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0 CY Hz 1k 81.0 .0 74.1 .0 8.7 .0 -3.7	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 74.1 .0 15.0 .0 -4.3	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8 .0 -2.6	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE : 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.5	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5 (exter	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 63 82.0 .0 74.1 .0 .1 .0 -1.9 9.6	125 102.0 .0 74.2 .0 .0 .5 .0 4.3 23.0 - silo 74.1 .0 .5 .0 7.4 3.9	FI 250 100.0 0 0 1.7 1.0 15.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	74.2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0 CY Hz 1k 81.0 .0 74.1 .0 8.7 .0 -3.7	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 15.0 .0 -4.3	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8 .0 -2.6	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.5 SOURCE: 28	31.5 110.0 .0 74.2 .0 .0 .0 -5.8 41.5 (exter 31.5 84.0 .0 74.1 .0 .0 .0 -5.0 14.8 (exter	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cnal) - 63 82.0 .0 74.1 .0 .1 .0 -1.9 9.6 cnal) -	125 102.0 .0 74.2 .0 .0 .5 .0 4.3 23.0 - silo 125 86.0 .0 .5 .0 74.1 .0 .5 .0 7.4 3.9	FF 250 100.0 .0 .0 .0	74.2 15.0 7.2 REQUENC 74.2 15.0 7.2 REQUENC 88.0 0 74.1 0 4.5 0 2.2 7.2	1k 104.0 .0 74.2 .0 8.8 .0 15.0 6.0 CY Hz	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 74.1 .0 15.0 .0 -4.3 -10.8	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8 .0 -2.6	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6- 8k 63.0 .0 74.1 .0 78.7 .0 -2.3	.0 .0 74.2 .0 263.3 .0 -2.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 16.2 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.5 SOURCE: 28	31.5 110.0 .0 74.2 .0 .0 .0 .0 -5.8 41.5 (exter 31.5 84.0 .0 74.1 .0 .0 .0 -5.0 14.8 (exter	63 111.0 .0 74.2 .0 .1 .0 -3.9 40.5 cnal) - 63 82.0 .0 74.1 .0 .1 .0 -1.9 9.6 cnal) -	125 102.0 .0 74.2 .0 .5 .0 4.3 23.0 - silo 74.1 .0 .5 .0 7.4 3.9 - silo	FI 250 100.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74.2 .0 4.5 .0 77.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1k 104.0 .0 74.2 .0 8.8 8.0 15.0 6.0 CY Hz 1k 81.0 .0 74.1 .0 8.7 .0 -3.7 1.9	2k 101.0 .0 74.2 .0 15.1 .0 14.5 -2.8 2k 74.0 .0 15.0 .0 -4.3 -10.8	97.0 .0 74.2 .0 30.1 .0 8.9 -16.2 4k 69.0 .0 74.1 .0 29.8 .0 -2.6	105.0 .0 74.2 .0 79.4 .0 2.9 -51.6 8k 63.0 .0 74.1 .0 78.7 .0 -2.3	.0 .0 .0 .0 .0 .0 .0 .2.5 -100.0

```
BARRIER
                                .0
                                     .0
1.7
                                                  .0
8.7
                                            4.5
                                                      15.0 29.9
AIR ABSORPTION
                    . 0
                                                                   78.9 261.5
                    . 0
                           . 0
                                 . 0
                                             . 0
GROUND
                  -5.0
                        -1.9
                               7.5
                                    10.9
                                            2.2
                                                 -3.7
                                                       -4.3
                                                            -2.6
                                                                   -2.3
TOTAL AWT
             6.5 14.8
                         9.6
                               3.9
                                      2.2
                                            7.1
                                                  1.8 -10.8 -32.5 -87.8-100.0
TOTAL AWT 22.1 45.7 46.1 27.7 19.1 16.6 10.2 1.3 -11.9 -50.8 -88.0 SINGLE POINT CALCULATION
ENM CALC MODULE
FILENAMES
 C:\ENM\SOURCES\2118506A\506A-3
 2118506A GEN
 C:\ENM\MAPS\2118506A\506A
 OUT1 file and RNK1 file
TEMP (deg C)
                    HUMIDITY (%)
   25.0
                       50.0
WIND SPEED (m/sec) WIND DIR (deg)
     .0
                         . 0
TEMP GRAD (deg C/100m)
     .0
   661.000 Y= 2957.000
                                    22.200
SOURCE :
             13
CFS - processing (external) - backhoe
                                      __FREQUENCY Hz_
                  31.5
                         63
                                           500
                                                                         16k
                              125
                                    250
                                                  1k
                                                        2k
                                                              4k
                                                                    8k
POWER LEVEL
                  95.0
                       95.0
                              95.0
                                     95.0
                                           95.0 95.0
                                                       95.0
                                                             95.0
                                                                   95.0
                   . 0
                                                 .0
                                                                    .0
DIRECTIVITY
                          .0
                               .0
                                      . 0
                                            .0
                                                        .0
                                                               .0
                                                                           . 0
DISTANCE
                  75.1
                        75 1
                              75 1
                                     75.1
                                           75 1
                                                 75.1
                                                       75.1
                                                             75.1
                                                                   75.1
                                                                         75 1
BARRIER
                  12.9
                        15.9
                              18.9
                                     21.9
                                           24.9
                                                 25.0
                                                       25.0
                                                             25.0
                                                                   25.0
                                                                         25.0
AIR ABSORPTION
                   .0
                               . 6
                                     1.9
                                                             32.8
                         .1
                                           5.0
                                                 9.7
                                                       16.6
TEMP & WIND
                     Ω
                           Ω
                                 . 0
                                       Ω
                                             . 0
                                                    . 0
                                     2.1 -4.1 -2.2 -2.6
                                                                  -3.1 -4.6
                         -.6
                               9.5
                                                            -2.9
GROUND
                  -4.6
TOTAL AWT -6.2 11.6
                              -9.0 -6.0 -5.9 -12.5 -19.1 -35.0 -89.2-100.0
                         4.5
             14
CFS - processing (external) - FEL
                                      ___FREQUENCY Hz_
                  31 5 63
                              125
                                    250
                                           500
                                                  1k
                                                        2k
                                                              4k
                                                                    8k
                                                                         16k
POWER LEVEL
                  94.0 100.0 100.0 106.0
                                           98.0 101.0
                                                       98.0
                                                             92.0
                                                                   86.0
                                                        .0
                                                               .0
                                                                    .0
DIRECTIVITY
                   . 0
                          . 0
                               .0
                                      .0
                                            .0
                                                 .0
                                                                           . 0
DISTANCE
                  75.1
                        75.1
                              75.1
                                     75.1
                                           75.1
                                                 75.1
                                                       75.1
                                                             75.1
                                                                         75.1
BARRIER
                  13.6
                        16.6
                              19.6
                                    22.6
                                           25.0
                                                 25.0
                                                       25.0
16.6
                                                             25.0
                                                                   25.0 25.0
87.2 289.7
AIR ABSORPTION
                   . 0
                                                  9.7
                                                             32.8
                                           5.0
                                .6
TEMP & WIND
                     . 0
                           .0
                                 . 0
                                                    . 0
                                     2.7
                                                      -2.6
                         -.8
                               9.5
                                          -3.8
                                                -3.0
                                                                  -2.8
GROUND
                  -4 7
                                                            -2.6
                                                                         -3 7
TOTAL AWT
           -.6
                   9.9
                         8.9
                              -4.7
                                     3.8 -3.2 -5.8 -16.1 -38.3 -98.5-100.0
             15
CFS - curing (intenral) - FEL
                                       _FREQUENCY Hz_
                  31.5
                         63
                              125
                                    250
                                           500
                                                  1k
                                                        2k
                                                              4k
                                                                    8k
                                                                         16k
POWER LEVEL
                  84.0
                        90.0
                              90.0
                                     96.0
                                           88.0
                                                 91.0
                                                       88.0
                                                             82.0
                                                                   76.0
                                           . 0
                                                                    .0
DIRECTIVITY
                   .0
                          .0
                               .0
                                     .0
                                                 .0
                                                        .0
                                                              .0
                                                                           .0
DISTANCE
                  75.1
                        75.1
                              75.1
                                     75.1
                                           75.1
                                                 75.1
                                                       75.1
                                                             75.1
                                                                         75.1
BARRIER
                  13.1
                        16.1
                              19.1
                                    22.1
                                           25.0
                                                 25.0
                                                       25.0
16.7
                                                             25.0
                                                                   25.0
                                                                         25.0
AIR ABSORPTION
                   .0
                                                 9.7
                         .1
                               . 6
                                           5.0
                                                             33.0
                                                                   87.6 291.2
TEMP & WIND
                     . 0
GROUND
                  -4.6
                         -.8
                               9.2
                                    2.0 -4.1 -1.9 -2.6
                                                            -3.1 -2.8
                         -.6 -13.9 -5.0 -13.0 -17.0 -26.2 -48.0-100.0-100.0
TOTAL AWT -10.3
                    . 4
SOURCE :
              16
CFS - curing (intenral) - conveyor belt / motor 1
                                       FREOUENCY Hz
```

31.5 63 125 250

500

1k

2k

4k

8k

16k

POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	
DISTANCE	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
BARRIER	12.8	15.7	18.7	21.7	24.7	25.0	25.0	25.0	25.0	
AIR ABSORPTION TEMP & WIND	. 0	. 1	. 0	1.9	5.0	9.7	16.7	33.1	87.9	.0
GROUND	.0 -4.6	7	9.1	1.6	-4.3	-1.4	-2.8	-3.3	-2.3	
TOTAL AWT -22.5	-6.4	2.7	-23.5	-26.4	-28.6	-40.5	-49.1	-67.9-	-100.0-	-100.0
SOURCE : 17										
CFS - curing (int	enral)	- cor	_							
	21 5			FR					01-	1.61-
	31.5	63	125	250	500	IK	2K	4K	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE				75.2					75.2	75.2
BARRIER	12.8	15.5	18.5	21.5	24.5	25.0	25.0	25.0	25.0 88.1	
AIR ABSORPTION TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	. 0	. 0
GROUND	-4.6	7	9.0	1.4	-4.3	-1.0	-2.9	-3.2	-2.7	-3.6
TOTAL AWT -22.3	-6.4	2.8	-23.2	-26.0	-28.4	-40.9	-49.0	-68.1-	-100.0-	-100.0
SOURCE : 18 CFS - curing (int	enral)	- cor	wevor	helt /	motor	٠ ٦				
CLD CULLING (IIII	.ciii ai /	COL		Deit /						
	31.5	63		250	-			4k	8k	16k
POWER LEVEL										
DIRECTIVITY	.0	.0	.0	. 0	. 0	.0	.0	.0	. 0	.0
DISTANCE BARRIER	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
AIR ABSORPTION	.0	.1	.6	1.9	5.0	9.7	16.7	33.1	87.9	292.0
TEMP & WIND	.0 -4.3	.0	.0	.0	.0	. 0	.0	.0	.0	.0
GROUND	-4.3	. 0	6.8	-1.8	-3.5	-2.1	-2.4	-2.2	-3.7	-2.3
TOTAL AWT -17.7	-2.7	6.6	-15.3	-16.8	-23.2	-36.3	-49.1	-69.0-	-100.0-	-100.0
SOURCE : 19 CFS - curing (int	enral)	- cor	nvevor	belt /	′ motor	4				
			_	FR						
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	. 0
DIRECTIVITY	77.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
BARRIER	10.3	12.4	14.5	17.5	20.5	23.5	25.0	25.0	25.0	25.0
AIR ABSORPTION	. 0	.1	.6	1.9	5.0	9.7	16.6	32.9	87.3	290.1
AIR ABSORPTION TEMP & WIND GROUND	-4.4	2	7.7	9	-4.3	-1.5	-1.7	-3.0	-3.1	-3.8
TOTAL AWT -19.0										
SOURCE : 20										
CFS - curing (int	enral)									
	21 5			FR 250					01-	161
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
	75.0									
BARRIER AIR ABSORPTION	12.0	13.8	16.8	19.8 1.9	22.8	25.0	25.0 16 5	25.0 32.6	25.0	25.0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-4.5	4	8.7	.0	-4.5	3	-3.4	-2.0	-3.3	-1.9
TOTAL AWT -20.6	-5.5	4.4	-21.1	-23.2	-26.3	-41.3	-48.1	-68.5-	-100.0-	-100.0
SOURCE : 21 CFS - curing (int	enral)	- cor	nveyor	belt /	motor	: 6				
J			_	FR						
				250						
POWER LEVEL	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	. 0
POWER LEVEL DIRECTIVITY	77.0 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0

DISTANCE	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
BARRIER	11.6	13.2	16.2	19.2	22.2	25.0	75.0 25.0	25.0	25.0	25.0
AIR ABSORPTION TEMP & WIND GROUND	.0	.1	.5	1.8	4.9	9.5	16.4	32.4	86.1	286.3
GROUND	-4.5	4	8.3	.0	-4.5	5	-3.0	-2.6	-2.4	-1.8
TOTAL AWT -19.9	-5.1	5.1	-20.0	-22.0	-25.6	-41.1	-48.3	-67.8-	-100.0-	-100.0
SOURCE : 22										
CFS - processing	(exte	rnal) -	- RTT r	manv						
				FI	FOITEM	7V H7				
					CEQUEIN					
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	111 0	114 0	103 0	104 0	103 0	100 0	98 0	94 0	88 0	0
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
			E4 0	E4 0						T4 0
DISTANCE BARRIER	.0	.0	.0	.0	.0	.0	74.2	.0	.0	.0
AIR ABSORPTION	.0	.1	. 5	1.7	4.5	8.7	15.0	29.9	79.1	262.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-5.8	-3.9	4.3	15.0	15.0	15.0	14.5	8.9	2.9	-2.5
TOTAL AWT 18.6	42.6	43.6	24.1	13.1	9.3	2.1	-5.7	-19.0	-68.1-	-100.0
SOURCE : 23										
CFS - processing		nal) ·	- RTT :	revers	ing					
_										
				F	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
				50 00	00.0	00.0	01 0	0		•
POWER LEVEL DIRECTIVITY	57.0	75.0	75.0	79.0	89.0	93.0	91.0	87.0	77.0	.0
DISTANCE	75.2	75.2	75.2	75.2	75.2	75.2	75.2 25.0	75.2	75.2	75.2
BARRIER AIR ABSORPTION	9.9	12.1	14.0	17.0	5 0	9.8	25.0 16.8	25.0 33.1	88 O	25.0
TEMP & WIND	.0	.0	.0	.0	.0	.0	16.8 .0	.0	.0	.0
GROUND	-4.3	1	7.8	9	-4.3		-1.8			-2.5
TOTAL AWT -8.2	-23.8	-12.4	-22.5	-14.2	-6.9	-13.6	-24.2	-43.4-	-100.0-	-100.0
SOURCE : 24 CFS - processing		anol)	duat	gollo	n+on /	fon				
CFS - processing	(exter	illai) -	- dust	COLLEC	SCOI /	Lall				
				F	EOHENG	Y Hz				
					LLQ O LL.					
	31 5	63							8k	16k
			125	250	500	1k	2k	4k		
POWER LEVEL	100.0	102.0	125 106.0	250 109.0	500 108.0	1k 101.0	2k 94.0	4k 89.0	83.0	.0
POWER LEVEL DIRECTIVITY	100.0	102.0	125 106.0	250 109.0	500 108.0	1k 101.0	2k	4k 89.0	83.0	.0
DIRECTIVITY	100.0	102.0	125 106.0 .0	250 109.0 .0	500 108.0 .0	1k 101.0 .0	2k 94.0 .0	4k 89.0 .0	83.0	.0
DIRECTIVITY	100.0	102.0	125 106.0 .0	250 109.0 .0	500 108.0 .0	1k 101.0 .0	2k 94.0 .0	4k 89.0 .0	83.0	.0
DIRECTIVITY	100.0	102.0	125 106.0 .0	250 109.0 .0	500 108.0 .0	1k 101.0 .0	2k 94.0 .0	4k 89.0 .0	83.0	.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	100.0 .0 74.9 11.0 .0	102.0 .0 74.9 12.7 .1	125 106.0 .0 74.9 15.4 .5	250 109.0 .0 74.9 18.4 1.8	500 108.0 .0 74.9 21.4 4.9	1k 101.0 .0 74.9 24.5 9.5	2k 94.0 .0	4k 89.0 .0 74.9 25.0 32.4	83.0 .0 74.9 25.0 85.9	.0 .0 74.9 25.0 285.5
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	100.0 .0 74.9 11.0 .0 .0	102.0 .0 74.9 12.7 .1 .0	125 106.0 .0 74.9 15.4 .5 .0 8.2	250 109.0 .0 74.9 18.4 1.8 .0 2	500 108.0 .0 74.9 21.4 4.9 .0 -4.5	1k 101.0 .0 74.9 24.5 9.5 .06	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	100.0 .0 74.9 11.0 .0 .0	102.0 .0 74.9 12.7 .1 .0	125 106.0 .0 74.9 15.4 .5 .0 8.2	250 109.0 .0 74.9 18.4 1.8 .0 2	500 108.0 .0 74.9 21.4 4.9 .0 -4.5	1k 101.0 .0 74.9 24.5 9.5 .06	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25	100.0 .0 74.9 11.0 .0 -4.4	102.0 .0 74.9 12.7 .1 .0 3	125 106.0 .0 74.9 15.4 .5 .0 8.2	250 109.0 .0 74.9 18.4 1.8 .0 2	500 108.0 .0 74.9 21.4 4.9 .0 -4.5	1k 101.0 .0 74.9 24.5 9.5 .06	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1	100.0 .0 74.9 11.0 .0 -4.4	102.0 .0 74.9 12.7 .1 .0 3	125 106.0 .0 74.9 15.4 .5 .0 8.2	250 109.0 .0 74.9 18.4 1.8 .0 2	500 108.0 .0 74.9 21.4 4.9 .0 -4.5	1k 101.0 .0 74.9 24.5 9.5 .06	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25	100.0 .0 74.9 11.0 .0 -4.4	102.0 .0 74.9 12.7 .1 .0 3	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9	250 109.0 .0 74.9 18.4 1.8 .0 2 14.0	500 108.0 .0 74.9 21.4 4.9 .0 -4.5	1k 101.0 .0 74.9 24.5 9.5 .06	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4	102.0 .0 74.9 12.7 .1 .0 3	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9	250 109.0 .0 74.9 18.4 1.8 .02 14.0	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4	102.0 .0 74.9 12.7 .1 .0 3	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9	250 109.0 .0 74.9 18.4 1.8 .02 14.0	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 74.9 25.0 285.5 .0 -2.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL	100.0 .0 74.9 11.0 .0 .0 .0 -4.4 18.4 (exter	102.0 .0 74.9 12.7 .1 .0 -3 14.4	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork:	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENCE 500 93.0	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz_ 1k 93.0	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE : 25 CFS - processing	100.0 .0 74.9 11.0 .0 .0 .0 -4.4 18.4 (exter	102.0 .0 74.9 12.7 .1 .0 -3 14.4	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork:	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENCE 500 93.0	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz_ 1k 93.0	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7	83.0 .0 74.9 25.0 85.9 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (exteri	102.0 .0 74.9 12.7 .1 .0 3 14.4 cnal)	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 fork:	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7-	.0 .0 74.9 25.0 285.5 .0 -2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	100.0 .0 74.9 11.0 .0 .0 .0 -4.4 18.4 (exter 31.5 101.0 .0	102.0 .0 74.9 12.7 .1 .0 -3 14.4 enal)	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork:	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENCE 500 93.0 .0 75.1 19.5	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	100.0 .0 74.9 11.0 .0 .0 .0 -4.4 18.4 (exter 31.5 101.0 .0	102.0 .0 74.9 12.7 .1 .0 -3 14.4 enal)	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork:	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENCE 500 93.0 .0 75.1 19.5	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	100.0 .0 74.9 11.0 .0 .0 .0 -4.4 18.4 (exter 31.5 101.0 .0	102.0 .0 74.9 12.7 .1 .0 -3 14.4 enal)	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork:	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENCE 500 93.0 .0 75.1 19.5	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	100.0 .0 74.9 11.0 .0 .0 .0 .0 .0 .0 .1 .18.4 (exter 31.5 101.0 .0 75.1 9.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	102.0 .0 74.9 12.7 .1 .0 3 14.4 enal) -	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .09	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	100.0 .0 74.9 11.0 .0 .0 .0 .0 .0 .0 .1 .18.4 (exter 31.5 101.0 .0 75.1 9.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	102.0 .0 74.9 12.7 .1 .0 3 14.4 enal) -	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .09	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (external control of the control of th	102.0 .0 74.9 12.7 .1 .0 3 14.4 enal) -	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .09	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (external content of the cont	102.0 .0 74.9 12.7 .1 .0 3 14.4 cnal) -	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift 250 97.0 .0 75.1 16.5 1.9 .09 4.4	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (external content of the cont	102.0 .0 74.9 12.7 .1 .0 .3 14.4 cnal) 63 100.0 .0 75.1 11.8 .1 .0 .1 13.1	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .09 4.4	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3 -2.4	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.55 9.7 .0 -1.5	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .2.2 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26	100.0 .0 74.9 11.0 .0 .0 .0 .0 .0 .0 .1 18.4 (external content of the content of	102.0 .0 74.9 12.7 .1 .0 .3 14.4 cnal) 63 100.0 .0 75.1 11.8 .1 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENO 93.0 .0 75.1 19.5 5.0 .0 -4.3 -2.4 unload REQUENO	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5 -12.9	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5 2k 91.0 .0 75.1 25.0 16.7 .0 -1.7	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0 -42.1	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .285.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26	100.0 .0 74.9 11.0 .0 .0 .0 .0 .0 .0 .1 18.4 (external content of the content of	102.0 .0 74.9 12.7 .1 .0 .3 14.4 cnal) 63 100.0 .0 75.1 11.8 .1 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1	250 109.0 .0 74.9 18.4 1.8 .02 14.0 lift	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENO 93.0 .0 75.1 19.5 5.0 .0 -4.3 -2.4 unload REQUENO	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5 -12.9	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0 -42.1	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .285.0 .0 .0 .2.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26 CFS - processing	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (extendary continuation of the continuation of th	102.0 .0 74.9 12.7 .1 .0 .3 14.4 cnal) 63 100.0 .0 75.1 11.8 .1 .0 .1 13.1 cnal)	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1 - aggree	250 109.0 .0 74.9 18.4 1.8 .0 .0 -2 14.0 lift FF 250 75.1 16.5 1.9 .0 -9 4.4 egate v	500 108.0 .0 74.9 21.4 4.9 21.4 4.9 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3 -2.4 unload REQUENC 500	1k 101.0 .0 74.9 24.5 9.5 .0 -6 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5 -12.9	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5 2k 91.0 .0 75.1 25.0 -1.7 -24.1	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .3.0 -42.1	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .2.2 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (external content of the cont	102.0 .0 .74.9 12.7 .1 .0 .3 .14.4 cnal) .0 .0 .0 .0 .1 .1.8 .1 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1 - aggree 125 102.0	250 109.0 .0 74.9 18.4 1.8 .0 .2 14.0 lift FI 250 75.1 16.5 1.9 .0 .09 4.4 egate to FI 250 100.0	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3 -2.4 unload REQUENC 500 101.0	1k 101.0 .0 74.9 24.5 9.5 .06 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5 -12.9 CY Hz 1k 104.0	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5 2k 91.0 .0 75.1 25.0 -1.7 -24.1	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0 -42.1	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .22 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26 CFS - processing	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (exter 31.5 101.0 .0 .0 75.1 9.6 .0 .0 -4.4 20.7 (exter 31.5	102.0 .0 74.9 12.7 .1 .0 .3 14.4 cnal) 63 100.0 .0 75.1 11.8 .1 .0 .1 13.1 cnal) 63	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1 - aggre	250 109.0 .0 74.9 18.4 1.8 .0 .2 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .0 .9 4.4 egate t	500 108.0 .0 74.9 21.4 4.9 .0 -4.5 11.2 REQUENC 500 93.0 .0 75.1 19.5 5.0 .0 -4.3 -2.4 anload REQUENC 500 101.0 .0	1k 101.0 .0 74.9 24.5 9.5 .0 .6 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 .1.5 -12.9 CY Hz 1k 104.0 .0	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5 2k 91.0 .0 75.1 25.0 16.7 .0 -1.7 -24.1	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .0 -3.0 -42.1	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .2.2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE : 26 CFS - processing	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (exter 31.5 101.0 .0 -4.4 20.7 (exter 31.5 110.0 .0 75.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	102.0 .0 .74.9 12.7 .1 .0 .3 .14.4 cnal) .0 .0 .1 .13.1 cnal) .0 .75.0	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1 - aggree 125 102.0 .0 75.0	250 109.0 .0 74.9 18.4 1.8 .0 .0 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .0 -9 4.4 egate v FF 250 100.0 .0 75.0	500 108.0 .0 74.9 21.4 4.9 21.4 500 -4.5 11.2 REQUENC 500 75.1 19.5 5.0 .0 -4.3 -2.4 anload REQUENC 500 101.0 .0 75.0	1k 101.0 .0 74.9 24.5 9.5 .0 -6 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5 -12.9 CY Hz 1k 104.0 .0 75.0	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5 2k 91.0 .0 75.1 25.0 -1.7 -24.1	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .3.0 -42.1 4k 97.0 .0 75.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .22 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 10.1 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT9 SOURCE: 26 CFS - processing	100.0 .0 74.9 11.0 .0 .0 -4.4 18.4 (exter 31.5 101.0 .0 -4.4 20.7 (exter 31.5 110.0 .0 75.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	102.0 .0 .74.9 12.7 .1 .0 .3 .14.4 cnal) .0 .0 .1 .13.1 cnal) .0 .75.0	125 106.0 .0 74.9 15.4 .5 .0 8.2 6.9 - fork: 125 99.0 .0 75.1 13.5 .6 .0 7.7 2.1 - aggree 125 102.0 .0 75.0	250 109.0 .0 74.9 18.4 1.8 .0 .0 14.0 lift FF 250 97.0 .0 75.1 16.5 1.9 .0 -9 4.4 egate v FF 250 100.0 .0 75.0	500 108.0 .0 74.9 21.4 4.9 21.4 500 -4.5 11.2 REQUENC 500 75.1 19.5 5.0 .0 -4.3 -2.4 anload REQUENC 500 101.0 .0 75.0	1k 101.0 .0 74.9 24.5 9.5 .0 -6 -7.3 CY Hz 1k 93.0 .0 75.1 22.5 9.7 .0 -1.5 -12.9 CY Hz 1k 104.0 .0 75.0	2k 94.0 .0 74.9 25.0 16.4 .0 -2.8 -19.5 2k 91.0 .0 75.1 25.0 -1.7 -24.1	4k 89.0 .0 74.9 25.0 32.4 .0 -2.6 -40.7 4k 88.0 .0 75.1 25.0 32.9 .3.0 -42.1 4k 97.0 .0 75.0	83.0 .0 74.9 25.0 85.9 .0 -3.1 -99.7- 8k 83.0 .0 75.1 25.0 87.5 .0 -3.1	.0 .0 .0 .0 .0 .25.0 .0 .0 .22 -100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

TEMP & WIND .0 .0 -5.8 -3.7 .0 .0 .0 9.3 3.3 -2.1 GROUND TOTAL AWT 15.1 40.7 39.6 21.5 8.1 6.0 4.3 -5.2 -20.1 -60.2-100.0 27 CFS - processing (external) - silo vent 1 ___FREQUENCY Hz_ 31.5 63 125 250 500 1k 2k 4k 16k 8k POWER LEVEL 84.0 82.0 86.0 89.0 88.0 81.0 74.0 69.0 63.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 . 0 . 0 . 0 75.0 75.0 75.0 75.0 75.0 DISTANCE 75.0 75.0 75.0 75.0 75.0 BARRIER .0 .0 .0 .0 1.8 . 0 . 0 AIR ABSORPTION 4.9 9.5 16.4 86.1 286.2 32.4 .0 .0 -3.3 -4.9 TEMP & WIND Ω .0 .0 0 . 0 8.2 11.6 2.9 GROUND -5.0 -1.7 -2.0 -2.1 -3.3 2.3 5.2 -.2 -12.5 -36.4 -96.0-100.0 TOTAL AWT 4.5 14.0 8.6 . 6 SOURCE : 28 CFS - processing (external) - silo vent 2 ___FREQUENCY Hz_ 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 84.0 82.0 86.0 89.0 88.0 81.0 74.0 69.0 63.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 . 0 75.0 DISTANCE 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 .0 BARRIER .0 .0 . 0 .0 .0 1.8 AIR ABSORPTION 4.9 9.6 16.4 32.5 86.3 286.9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .3.2 -4.9 -2.0 -2.1 -3.2 TEMP & WIND . 0 . 0 . 0 . 0 .0 -5.0 -1.7 8.2 11.6 2.9 GROUND TOTAL AWT 4.5 14.0 -.3 -12.5 -36.5 -96.2-100.0 8.6 2.3 5.2 . 5 TOTAL AWT 20.9 44.8 45.1 26.1 17.8 15.3 8.3 -1.3 -16.3 -59.5 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE FILENAMES C:\ENM\SOURCES\2118506A\506A-3 2118506A.GEN C:\ENM\MAPS\2118506A\506A OUT1 file and RNK1 file TEMP (deg C) HUMIDITY (%) 50.0 25.0 WIND SPEED (m/sec) WIND DIR (deg) .0 .0 TEMP GRAD (deg C/100m) .0 X= 2568.000 Y= 556.000 Z= 61.200 SOURCE : 13 CFS - processing (external) - backhoe

CFS - processing	(exte	rnaı)	- Dack	noe						
				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
	5.0 .0 .0	.2	4.9 .7 .0	.0	4.0 6.2 .0	2.7 11.9 .0	.9 20.4 .0	.0 39.9 .0	.0 107.3 .0	300.0
TOTAL AWT 10.8	16.2	9.9	12.3	13.4	9.2	5.4	9	-22.1	-87.4	-100.0
SOURCE : 14 CFS - processing	(exte	rnal)	- FEL							
				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY				106.0						

BARRIER AIR ABSORPTION	77.0 5.0 .0 .0	4.9	4.9	4.7	3.9 6.1	2.5	.7 20 4	.0 39.8	107.0	300 0
TOTAL AWT 18.1	15.2	15.0	17.3	24.5	12.3	11.6	2.3	-25.0	-95.9-	-100.0
SOURCE : 15 CFS - curing (int	enral)	- FEL		-						
	31 5	63		FR 250	-			4 k	8 k-	16k
POWER LEVEL										
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	5.0	4.9	4.8	4.6	3.6	2.1	. 4	. 0	. 0	. 0
BARRIER AIR ABSORPTION TEMP & WIND	.0 .0 -3.2	.2	.7	2.3	6.0 .0	11.7	19.9 .0	39.0 .0	104.7	300.0
TOTAL AWT 8.8	5.4	5.2	7.4	15.0	3.0	2.5	-6.8	-29.6-	-100.0-	-100.0
SOURCE : 16 CFS - curing (int	enral)	- con	veyor	belt /	motor	1				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER	76.7 5.0	76.7 4.9	76.7 4.8	76.7 4.7	76.7 3.7	76.7 2.2	76.7 .5	76.7 .0	76.7 .0	76.7 .0
AIR ABSORPTION TEMP & WIND	Ω	2	7	2 2	5 9	11 5	19 7	38 6	103 5	300 0
GROUND	.0	3.0	. 4	-2.6	-1.4	-2.0	-2.3	-4.1	-1.4	-2.3
TOTAL AWT -10.3	-1.5	8.3	-2.5	-6.9	-12.9	-20.3	-29.5	-49.1-	-100.0-	-100.0
SOURCE : 17 CFS - curing (int	enral)	- con	veyor	belt /	motor	2				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DIRECTIVITY	77.0 .0 76.6	93.0 .0 76.6	80.0 .0 76.6	74.0 .0	72.0 .0	68.0 .0 76.6	65.0 .0 76.6	62.0 .0 76.6	58.0 .0 76.6	.0 .0 76.6
DIRECTIVITY DISTANCE BARRIER	77.0 .0 76.6 5.0	93.0 .0 76.6 4.9 .2	80.0 .0 76.6 4.8 .7	74.0 .0 76.6 4.7 2.2	72.0 .0 76.6 3.7 5.9	68.0 .0 76.6 2.3 11.4	65.0 .0 76.6 .5	62.0 .0 76.6 .0 38.2	58.0 .0 76.6 .0 102.4	.0 .0 76.6 .0 300.0
DIRECTIVITY	77.0 .0 76.6 5.0	93.0 .0 76.6 4.9 .2	80.0 .0 76.6 4.8 .7	74.0 .0	72.0 .0 76.6 3.7 5.9	68.0 .0 76.6 2.3 11.4	65.0 .0 76.6 .5	62.0 .0 76.6 .0 38.2	58.0 .0 76.6 .0 102.4	.0 .0 76.6 .0 300.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	77.0 .0 76.6 5.0 .0 .0	93.0 .0 76.6 4.9 .2 .0 2.9	80.0 .0 76.6 4.8 .7 .0	74.0 .0 76.6 4.7 2.2 .0 -2.6	72.0 .0 76.6 3.7 5.9 .0 -1.4	68.0 .0 76.6 2.3 11.4 .0 -2.0	65.0 .0 76.6 .5 19.5 .0 -2.3	62.0 .0 76.6 .0 38.2 .0 -3.9	58.0 .0 76.6 .0 102.4 .0 -1.8	.0 .0 76.6 .0 300.0 .0 -2.5
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 .0 76.6 5.0 .0 -3.2	93.0 .0 76.6 4.9 .2 .0 2.9	80.0 .0 76.6 4.8 .7 .0 .4	74.0 .0 76.6 4.7 2.2 .0 -2.6	72.0 .0 76.6 3.7 5.9 .0 -1.4	68.0 .0 76.6 2.3 11.4 .0 -2.0	65.0 .0 76.6 .5 19.5 .0 -2.3	62.0 .0 76.6 .0 38.2 .0 -3.9	58.0 .0 76.6 .0 102.4 .0 -1.8	.0 .0 76.6 .0 300.0 .0 -2.5
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3	93.0 .0 76.6 4.9 .2 .0 2.9	80.0 .0 76.6 4.8 .7 .0 .4 -2.4	74.0 .0 76.6 4.7 2.2 .0 -2.6	72.0 .0 76.6 3.7 5.9 .0 -1.4	68.0 .0 76.6 2.3 11.4 .0 -2.0	65.0 .0 76.6 .5 19.5 .0 -2.3	62.0 .0 76.6 .0 38.2 .0 -3.9	58.0 .0 76.6 .0 102.4 .0 -1.8	.0 .0 76.6 .0 300.0 .0 -2.5
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3	93.0 .0 76.6 4.9 .2 .0 2.9 8.4	80.0 .0 76.6 4.8 .7 .0 .4	74.0 .0 76.6 4.7 2.2 .0 -2.6	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor	68.0 .0 76.6 2.3 11.4 .0 -2.0	65.0 .0 76.6 .5 19.5 .0 -2.3	62.0 .0 76.6 .0 38.2 .0 -3.9	58.0 .0 76.6 .0 102.4 .0 -1.8	.0 .0 76.6 .0 300.0 -2.5
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18	77.0 .0 76.6 5.0 .0 -3.2 -1.3 :enral)	93.0 .0 76.6 4.9 .2 .0 2.9 8.4 - con	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor 500 72.0	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 3 2Y Hz	65.0 .0 76.6 .5 19.5 .0 -2.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9-	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 76.6 .0 300.0 -2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3 cenral) 31.5 77.0 .0	93.0 .0 76.6 4.9 .2 .0 2.9 8.4 - con 63 93.0 .0 76.5	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 veyor 125 80.0 .0 76.5	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8 belt / 250 74.0 .0 76.5	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor 500 72.0 .0 76.5	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 3 2Y Hz	65.0 .0 76.6 .5 19.5 .0 -2.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 -2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3 eenral) 31.5 77.0 .0	93.0 .0 76.6 4.9 .0 2.9 8.4 - con 63 93.0 .0 76.5	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 .veyor 125 80.0 .0 76.5 4.8	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8 belt / FR 250 74.0 .0	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor 500 72.0 .0 76.5	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 -3 2Y Hz	65.0 .0 76.6 .9.5 .0 -2.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 -2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3 cenral) 31.5 77.0 .0	93.0 .0 76.6 4.9 .0 2.9 8.4 - con 63 93.0 .0 76.5	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 .veyor 125 80.0 .0 76.5 4.8	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8 belt / FR 250 74.0 .0	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor 500 72.0 .0 76.5	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 -3 2Y Hz	65.0 .0 76.6 .9.5 .0 -2.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 -2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	77.0 .0 76.6 5.0 .0 -3.2 -1.3 tenral) 31.5 77.0 .0 76.5 5.0 .0 .0	93.0 .0 76.6 4.9 .2.9 8.4 - con 63 93.0 .0 76.5 4.9 .2 .0 2.9	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 eveyor 125 80.0 .0 76.5 4.8 .6 .0	74.0 .0 .0 .0 .0 .0 .2.6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor 500 72.0 .0 76.5 3.7 5.8 .0 -1.4	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 1k 68.0 .0 76.5 2.3 11.3 .0 -2.0	65.0 .0 76.6 .5 19.5 .0 -2.3 -29.3 -29.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9- 4k 62.0 .0 76.5 .0 38.0 .0	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 .2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3 senral) 31.5 77.0 .0 76.5 5.0 .0 .0 -3.2	93.0 .0 76.6 4.9 .2.9 8.4 - con 63 93.0 .0 76.5 4.9 .2.0 .2.9	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 veyor 125 80.0 .0 76.5 4.8 .6 .0 .4	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8 belt / FR 250 74.0 .0 76.5 4.7 2.2 .0 -2.6	72.0 .0 .0 .0 .0 .0 .0 .1.4 .12.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 18 68.0 .0 76.5 2.3 11.3 .0 -2.0	65.0 .0 76.6 .5 19.5 .0 -2.3 -29.3 -29.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9- 4k 62.0 .0 76.5 .0 38.0 .0	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 .2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.1 SOURCE : 19	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3 senral) 31.5 77.0 .0 76.5 5.0 .0 .0 -3.2	93.0 .0 76.6 4.9 .2.9 8.4 - con 63 93.0 .0 76.5 4.9 .2.0 .2.9	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 Eveyor 125 80.0 .0 76.5 4.8 .6 .0 .4	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8 belt / FR 250 74.0 .0 76.5 4.7 2.2 .0 -2.6	72.0 .0 76.6 3.7 5.9 .0 -1.4 -12.8 motor 500 72.0 .0 76.5 3.7 5.9 .0 -1.4 -12.8	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 1k 68.0 .0 76.5 2.3 11.3 .0 -2.0	65.0 .0 76.6 .5 .0 -2.3 -29.3 -29.3 -29.3 -29.3 -29.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9 4k 62.0 .0 76.5 .0 38.0 -4.0	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 .2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.1 SOURCE : 19	77.0 .0 76.6 5.0 .0 -3.2 -1.3 tenral) 31.5 77.0 .0 76.5 5.0 .0 .0 -3.2 -1.3	93.0 .0 76.6 4.9 .2 .0 2.9 8.4 - con 63 93.0 .0 76.5 4.9 .2 .0 2.9	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 veyor 125 80.0 .0 76.5 4.8 .6 .0 .4	74.0 .0 76.6 4.7 2.2 .0 -2.6 -6.8 belt / 250 74.0 .0 76.5 4.7 2.2 .0 -2.6	72.0 .0 .0 .0 .0 .0 .0 .1.4 .12.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 3 2Y Hz	65.0 .0 76.6 .5 19.5 .0 -2.3 -29.3 2k 65.0 .0 76.5 .5 19.4 .0 -2.3	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9 4k 62.0 .0 76.5 .0 38.0 .0 -4.0	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0-	.0 .0 .0 .0 .0 .0 .0 .0 .2.5 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.2 SOURCE : 18 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -10.1 SOURCE : 19	77.0 .0 76.6 5.0 .0 .0 -3.2 -1.3 tenral) 31.5 77.0 .0 76.5 5.0 .0 -3.2 -1.3	93.0 .0 76.6 4.9 .2 .0 2.9 8.4 - con 63 93.0 .0 76.5 4.9 .2 .0 2.9	80.0 .0 76.6 4.8 .7 .0 .4 -2.4 veyor 125 80.0 .0 76.5 4.8 .6 .0 .4 -2.4	74.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	72.0 .0 .0 .0 .0 .0 .0 .1.4 .12.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .1.4 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	68.0 .0 76.6 2.3 11.4 .0 -2.0 -20.2 3 PY Hz	65.0 .0 76.6 .5 19.5 .0 -2.3 -29.3 -29.3 -29.3 -29.1 2k 65.0 -2.3 -29.1	62.0 .0 76.6 .0 38.2 .0 -3.9 -48.9 4k 62.0 .0 76.5 .0 .0 .0 -4.	58.0 .0 76.6 .0 102.4 .0 -1.8 -100.0 8k 58.0 .0 76.5 .0 -1.6 -100.0	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

AIR ABSORPTION	0	2	7	2 2	5.9	11 4	19 4	38 1	102 1	300 0
TOTAL AWT -10.1	-1.3	8.5	-2.5	-6.7	-12.7	-20.2	-29.2	-48.8	-100.0	-100.0
SOURCE : 20 CFS - curing (int	enral) – cor	nveyor	belt /	/ moto	c 5				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER		76.7 12.7								
AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.2	6.0	11.6	19.8	38.7	103.9	300.0
GROUND	-1.9	4.8	-2.4	8	-1.0	-1.6	-1.8	-2.7	1	-2.0
TOTAL AWT -22.8	-8.8	-1.4	-10.3	-22.5	-31.0	-43.0	-54.7	-75.7	-100.0	-100.0
SOURCE : 21 CFS - curing (int	cenral) - cor	nveyor	belt ,	/ moto	c 6				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0 .0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER	76.9	76.9 12.5 .2	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
AIR ABSORPTION	.0	.2	.7	2.3	6.1	11.8	20.1	39.4	105.9	300.0
TEMP & WIND GROUND		.0 4.8								
TOTAL AWT -22.5	-8.6	-1.3	-9.9	-22.2	-30.6	-43.0	-56.0	-77.7	-100.0	-100.0
SOURCE : 22 CFS - processing		nal) -	- RTT r	nanv						
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY		114.0								
		77.2 4.9								
AIR ABSORPTION	. 0	.2	.7	2.4	6.3	12.3	21.0	41.0	110.4	300.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 18.3	-3.2	3.0	.7	-3.1	-1.5	-2.0	-2.1	-2.9	-2.4	-3.4
TOTAL AWT 18.3	32.0	28.7	19.6	22.8	17.2	10.3	1.4	-21.3	-97.2	-100.0
SOURCE : 23 CFS - processing	(exter	nal) -	RTT	revers	ing					
				FI						
		63								
POWER LEVEL DIRECTIVITY	57.0 .0	75.0 .0	75.0 .0	79.0 .0			91.0			
DISTANCE BARRIER	77.0 5.0	77.0 5.0	77.0 5.0	77.0 5.0	77.0 4.9	77.0 4.8	77.0 4.7	77.0 3.7	77.0 2.3	77.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	.2	.7	2.3	6.2	11.9	20.4	39.8	107.1	300.0
GROUND	-3.1	3.3	1	-2.2	-1.3	-2.2	-2.7	-4.1	-1.7	-2.2
TOTAL AWT 3.9	-21.9	-10.4	-7.5	-3.1	2.3	1.4	-8.3	-29.5	-100.0	-100.0
SOURCE : 24 CFS - processing	(exter	nal) -	- dust	collec	ctor /	fan				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	100.0	102.0	106.0	109.0	108.0	101.0	94.0	89.0	83.0	.0
		77.0 12.6								77.0 25.0
BARRIER AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.3	6.2	12.0	20.5	40.0	107.7	300.0
TEMP & WIND GROUND	.0 -1.9	.0 4.8	.0 -2.4	8	.0 -1.1	.0 -1.6	.0 -1.5	.0 -2.5	.0 -1.2	.0 -2.0

TOTAL AWT 7.0 14.2 7.5 15.8 12.5 4.9 -10.4 -27.0 -50.6-100.0-100.0

SOURCE : 25

CFS - processing (external) - forklift

				FR	EQUENC	Y Hz				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	101.0	100.0	99.0	97.0	93.0	93.0	91.0	88.0	83.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.9 5.0 .0 .0	76.9 5.0 .2 .0 3.1	76.9 4.9 .7 .0	76.9 4.8 2.3 .0 -2.3	76.9 4.3 6.1 .0 -1.3	76.9 3.2 11.8 .0 -2.1	76.9 1.6 20.2 .0 -2.6	76.9 .0 39.5 .0 -2.7	76.9 .0 106.2 .0 -3.4	.0
TOTAL AWT 10.3	22.3	14.9	16.5	15.3	7.0	3.1	-5.0	-25.7	-96.7	-100.0

SOURCE : 26 CFS - processing (external) - aggregate unload

				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	110.0	111.0	102.0	100.0	101.0	104.0	101.0	97.0 .0	105.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 13.3 .0 .0	77.0 16.3 .2 .0 4.8	77.0 19.3 .7 .0 -2.2	77.0 22.3 2.3 .0 5	77.0 25.0 6.2 .0 -1.2	77.0 25.0 12.0 .0 -1.8	77.0 25.0 20.5 .0 -2.5	77.0 25.0 40.1 .0 -2.9	77.0 25.0 107.8 .0 -2.8	77.0 25.0 300.0 .0 -2.8
TOTAL AWT -2.3	21.9	12.8	7.2	-1.1	-6.0	-8.2	-19.0	-42.2	-100.0	-100.0

SOURCE : 27 CFS - processing (external) - silo vent 1

				FR	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	82.0	86.0	89.0	88.0	81.0	74.0	69.0	63.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 5.0 .0 .0	77.0 5.0 .2 .0 4.8	77.0 5.0 .7 .0 -2.2	77.0 5.0 2.3 .0 5	77.0 5.0 6.2 .0 -1.3	77.0 5.0 12.0 .0 -1.8	77.0 4.9 20.5 .0 -2.2	.0	77.0 4.7 107.9 .0 -2.3	77.0 3.7 300.0 .0 -2.6
TOTAL AWT .9	4.1	-5.0	5.4	5.1	1.0	-11.3	-26.2	-50.3	-100.0	-100.0

SOURCE : 28

CFS - processing (external) - silo vent 2

				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	82.0	86.0	89.0	88.0	81.0	74.0	69.0	63.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 5.0 .0 .0	77.0 5.0 .2 .0 4.8	77.0 5.0 .7 .0 -2.2	77.0 5.0 2.3 .0 5	77.0 5.0 6.2 .0 -1.1	77.0 5.0 12.0 .0 -1.9	77.0 4.9 20.5 .0 -2.8	77.0 4.8 40.1 .0 -2.6	77.0 4.7 107.9 .0 -3.0	77.0 3.7 300.0 .0 7
TOTAL AWT .8	4.1	-5.0	5.5	5.2	.9	-11.1	-25.7	-50.4	-100.0	-100.0

TOTAL AWT 22.4 33.0 29.4 24.2 27.7 19.7 15.4 6.6 -16.6 -84.3 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE

FILENAMES

C:\ENM\SOURCES\2118506A\506A-3 2118506A.GEN C:\ENM\MAPS\2118506A\506A

OUT1 file and RNK1 file

TEMP (deg C) HUMIDITY (%) 25.0 50.0 50.0

WIND SPEED (m/sec) WIND DIR (deg) .0 .0

TEMP GRAD (deg C/100m)

X= 2964.000 Y= 577.000 Z= 51.200

DISTANCE BARRIER AIR ABSORPTION TEMP & WIND

SOURCE : 13 CFS - processing	(exter	nal) -	- backl	noe						
				FR	EQUEN	CY Hz_				
				250						
POWER LEVEL DIRECTIVITY	95.0 .0	95.0 .0	95.0 .0	95.0	95.0	95.0 .0	95.0 .0	95.0	95.0 .0	.0
BARRIER AIR ABSORPTION TEMP & WIND	5.0 .0 .0	5.0 .2 .0	5.0 .7 .0	77.4 5.0 2.4 .0 -3.7	5.0 6.4 .0	4.9 12.5 .0	4.8 21.3 .0	4.3 41.5 .0	3.1 111.9 .0	1.4 300.0 .0
TOTAL AWT 9.1	16.1	10.4	9.1	13.9	6.6	2.9	-5.9	-25.4	-95.1-	-100.0
SOURCE : 14 CFS - processing	(exter	nal) -								
				FR						
				250						
POWER LEVEL DIRECTIVITY	94.0	100.0	100.0	106.0	98.0	101.0	98.0	92.0	86.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	5.0	5.0	5.0	77.3 5.0 2.4 .0 -3.7	4 9	4 9	4 7	3 9	2.5	8
TOTAL AWT 17.5	15.2	15.4	14.1	24.9	9.7	9.0	-2.7	-28.1-	-100.0-	-100.0
SOURCE : 15 CFS - curing (int	enral)	- FEI								
				FR	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	90.0	90.0	96.0	88.0	91.0 .0	88.0	82.0	76.0 .0	.0
BARRIER AIR ABSORPTION TEMP & WIND	5.0 .0 .0	5.0 .2 .0	5.0 .7 .0	77.2 5.0 2.4 .0 -3.6	5.0 6.3 .0	4.9 12.2 .0	4.8 20.8 .0	4.3 40.7 .0	3.1 109.5 .0	1.4 300.0 .0
TOTAL AWT 7.8	5.4	5.7	4.2	15.1	1	5	-12.3	-37.9-	-100.0-	-100.0
SOURCE : 16 CFS - curing (int	enral)	- cor	nveyor	belt /	motor	1				
				FR	EQUEN	CY Hz_				
				250						
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 5.0 .0 .0 -3.7	77.1 4.9 .2 .0 1.9	77.1 4.8 .7 .0 3.5	77.1 4.6 2.3 .0 -3.6	77.1 3.5 6.2 .0 3	77.1 2.0 12.1 .0 -3.1	77.1 .3 20.6 .0 -1.9	77.1 .0 40.3 .0 -3.2	77.1 .0 108.5 .0 -1.9	77.1 .0 300.0 .0 -3.1
TOTAL AWT -10.8	-1.4	9.0	-6.1	-6.5	-14.6	-20.1	-31.1	-52.2-	-100.0-	-100.0
SOURCE : 17 CFS - curing (int	enral)	- cor								
				FR	~					
				250						
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0

GROUND	-3.7	1.8	3.5	-3.6	3	-3.1	-1.9	-3.2	-2.2	-3.3
TOTAL AWT -10.7	-1.3	9.1	-6.0	-6.4	-14.4	-19.9	-30.8	-51.8-	100.0-	-100.0
SOURCE : 18 CFS - curing (int	enral)	- con	veyor	belt /	/ moto	c 3				
				FI	REQUEN	CY Hz_				

				FF	REQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 5.0 .0 .0	77.0 4.9 .2 .0	77.0 4.8 .7 .0 3.5	77.0 4.6 2.3 .0 -3.6	77.0 3.6 6.1 .0 3	77.0 2.1 11.9 .0 -3.1	77.0 .4 20.4 .0 -1.9	77.0 .0 39.8 .0 -3.2	77.0 .0 107.0 .0 -2.3	77.0 .0 300.0 .0 -3.1
TOTAL AWT -10.6	-1.3	9.1	-5.9	-6.3	-14.4	-19.9	-30.7	-51.6	-100.0-	-100.0

SOURCE : 19 CFS - curing (intenral) - conveyor belt / motor 4

				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0 5.0 .0 .0	77.0 4.9 .2 .0	77.0 4.8 .7 .0 3.5	77.0 4.6 2.3 .0 -3.6	77.0 3.6 6.2 .0 3	77.0 2.1 12.0 .0 -3.1	77.0 .4 20.4 .0 -1.9	77.0 .0 39.9 .0 -3.2	77.0 .0 107.4 .0 -2.1	77.0 .0 300.0 .0 -3.4
TOTAL AWT -10.7	-1.3	9.1	-6.0	-6.4	-14.4	-19.9	-30.8	-51.7	-100.0-	-100.0

SOURCE : 20 CFS - curing (intenral) - conveyor belt / motor 5

				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 12.0 .0 .0 -2.7	77.1 13.8 .2 .0 4.1	77.1 16.8 .7 .0 -1.2	77.1 19.8 2.4 .0 9	77.1 22.8 6.3 .0 -2.2	77.1 25.0 12.2 .0 -1.8	77.1 25.0 20.8 .0 -2.2	77.1 25.0 40.5 .0 -4.1	77.1 25.0 109.1 .0 -1.5	77.1 25.0 300.0 .0 -2.1
TOTAL AWT -24.7	-9.4	-2.2	-13.4	-24.4	-32.0	-44.5	-55.7	-76.6	-100.0	-100.0

SOURCE : 21 CFS - curing (intenral) - conveyor belt / motor 6

				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.3 11.7 .0 .0	77.3 13.4 .2 .0 4.1	77.3 16.3 .7 .0 -1.3	77.3 19.4 2.4 .0 9	77.3 22.4 6.4 .0 -2.2	77.3 25.0 12.4 .0 -1.8	77.3 25.0 21.1 .0 -2.1	.0	77.3 25.0 110.9 .0 -2.0	77.3 25.0 300.0 .0 -2.2
TOTAL AWT -24.4	-9.3	-2.0	-13.1	-24.2	-31.8	-44.9	-56.2	-77.3	-100.0-	-100.0

SOURCE : 22 CFS - processing (external) - RTT manv

				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	111.0	114.0	103.0	104.0	103.0	100.0	98.0	94.0	88.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.7 6.1 .0 .0	77.7 7.2 .2 .0 4.7	77.7 8.8 .7 .0 -2.0	77.7 11.1 2.5 .0 4	77.7 12.8 6.7 .0 -1.8	77.7 15.5 13.0 .0 -1.8	77.7 18.5 22.1 .0 -2.3	77.7 21.5 43.0 .0 -3.2	77.7 24.6 116.3 .0 -2.7	.0
TOTAL AWT 9.3	29.4	24.3	17.8	13.1	7.6	-4.4	-18.1	-45.1	-100.0-	-100.0

CFS - processing		rnal) ·	- RTT :	revers	ing					
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY							91.0			
DISTANCE BARRIER							77.3 5.0			
AIR ABSORPTION	.0	.2	.7	2.4	6.4	12.4	21.2	41.4	111.5	300.0
TEMP & WIND	.0	.0	. 0	.0	.0	. 0	21.2 .0 -2.5	.0	.0	. 0
GROUND										
TOTAL AWT 2.9 SOURCE : 24		-9.7	-10.7	-2.1	.7	.7	-10.0	-33.6	-100.0	-100.0
CFS - processing	(exte	rnal) ·								
	21 5	63					21-		01-	1.61-
DOMED I EVEI							2k			
POWER LEVEL DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
BARRIER AIR ABSORPTION	TT.8	⊥3.6 .2	⊥6.5 .7	19.5 2.4	44.6 6.5	∠5.0 12.6	25.0 21.4	∠5.0 41.7	∠5.0 112.6	∠5.0 300.0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND TOTAL AWT 5.3										
SOURCE : 25	13.0	,.2		11.0	3.0	11.0	27.5	31.1	100.0	100.0
CFS - processing	(exte	rnal) ·				~				
	31 5	63		FI			2k	4 k	Ωl-	16k
POWER LEVEL DIRECTIVITY							91.0			
							77.3			
BARRIER AIR ABSORPTION	5.0	.2	5.0	2.4			4.9 21.1			
TEMP & WIND GROUND	.0 -3.6	.2 .0 2.1	.0 2.7	.0 -3.7	.0	. 0		.0	.0	.0
TOTAL AWT 9.5	22.2	15.4	13.3	16.0	4.8	.9	-9.8	-32.3	-100.0	-100.0
SOURCE : 26 CFS - processing	(exte	rnal) ·	- aggr	egate ı	unload					
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	110.0	111.0	102.0	100.0	101.0	104.0	101.0	97.0 .0	105.0	.0
DISTANCE	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
BARRIER AIR ARSORDTION	13.2	16.2	19.2	22.2	25.0	25.0	25.0 21 4	25.0 41 7	25.0 112 4	25.0 300 0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL AWT -2.5										
SOURCE : 27										
CFS - processing	(exte	•								
	31.5						2k		8k	
DOMED I DITE										
POWER LEVEL DIRECTIVITY							74.0			
							77.4			
BARRIER AIR ABSORPTION	5.0 .0	5.0	5.0 .7	5.0 2.4	5.0 6.5	5.0 12.6	4.9 21.4	4.8	4.6	3.6
TEMP & WIND	.0	.0	.0	2.4 .0 -2.7	.0	.0	.0	.0	.0	.0
GROUND									-1.3	
TOTAL AWT 1.2		-4.0	2.7	6.8	.5	-11.9	-27.4	-50.9	-100.0	-100.0
SOURCE : 28 CFS - processing		rnal) ·	- silo	vent 2	2					

FREQUENCY Hz 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 84.0 82.0 86.0 89.0 88.0 81.0 74.0 69.0 .0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 . 0 DISTANCE 77.4 77.4 77.4 77.4 77.4 77.4 77.4 77.4 BARRIER 5.0 5.0 5.0 5.0 2.4 5.0 5.0 5.0 5.0 5.0 5.0 21.4 41.8 112.7 300.0 AIR ABSORPTION 12.6 .0 6.5 . 0 . 0 . 0 GROUND -3.0 3.4 .0 -2.6 -1.4 -2.1 -2.4 -2.2 -3.3 -2.0 TOTAL AWT 1.1 4.5 -4.0 2.8 6.7 .5 -11.9 -27.5 -53.0-100.0-100.0 TOTAL AWT 19.9 31.2 26.2 21.5 26.6 14.7 11.5 SINGLE POINT CALCULATION .4 -22.4 -87.4 -88.0 ENM CALC MODULE FILENAMES C:\ENM\SOURCES\2118506A\506A-3 2118506A.GEN C:\ENM\MAPS\2118506A\506A OUT1 file and RNK1 file TEMP (deg C) HUMIDITY (%) 25.0 50.0 WIND SPEED (m/sec) WIND DIR (deg) .0 .0 TEMP GRAD (deg C/100m) .0 X= 3712.000 Y= 1349.000 22,200 SOURCE : 13 CFS - processing (external) - backhoe __FREQUENCY Hz_ 31.5 500 63 125 250 1k 2k 4k 8k 16k POWER LEVEL 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 .0 .0 .0 .0 DIRECTIVITY .0 .0 .0 .0 . 0 . 0 DISTANCE 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 .0 BARRIER .0 .0 . 0 .0 .0 .0 AIR ABSORPTION .0 2.2 5.9 11.5 19.6 38.4 103.0 300.0 TEMP & WIND . 0 . 0 . 0 . 0 7.2 15.0 15.0 15.0 10.5 -5 6 -3 0 4 2 -1 4 -5 3 GROUND TOTAL AWT 1.2 23.9 21.2 10.5 1.2 -2.5 -8.0 -11.7 -24.2 -83.2-100.0 14 CFS - processing (external) - FEL ___FREQUENCY Hz_ 31 5 63 125 250 500 1k 2k4k 8k 16k POWER LEVEL 94.0 100.0 100.0 106.0 98.0 101.0 98.0 92.0 86.0 . 0 .0 .0 .0 DIRECTIVITY . 0 .0 .0 .0 .0 .0 DISTANCE 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.6 . 0 .0 BARRIER .0 .02.2 Ω .0 .0 19.6 5.9 11.5 38.4 102.9 300.0 AIR ABSORPTION . 0 TEMP & WIND . 0 . 0 . 0 -5.6 -1.3 GROUND -3.0 7.2 15.0 15.0 15.0 10.6 4.4 -5 2 TOTAL AWT 7.4 23.0 26.2 15.5 12.2 .5 -2.0 -8.8 -27.3 -92.3-100.0 SOURCE : 15 CFS - curing (intenral) - FEL FREQUENCY Hz_ 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 84.0 90.0 90.0 96.0 88.0 91.0 88.0 82.0 76.0 . 0 .0 .0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 DISTANCE 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 76.5 5.1 5.9 19.4 6.8 8.3 10.4 37.9 101.7 300.0 BARRIER 5.0 5.1 5.1 5.3 5.5 AIR ABSORPTION .0 . 2 5.8 11.3 .6 TEMP & WIND

-1.5

-2.9

-2.8

-5.2

3.0 -3.0

GROUND

-5.0

-1.5

10.1 11.5

TOTAL AWT 2.6 7.5 9.8 -2.3 .7 -2.6 .7 -8.6 -37.8-100.0-100.0

SOURCE : 16 CFS - curing (intenral) - conveyor belt / motor 1

				F	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 5.0 .0 .0	76.4 5.1 .2 .0 -1.5	76.4 5.1 .6 .0 10.0	76.4 5.1 2.2 .0 11.4	76.4 5.3 5.8 .0 2.9	5.5 11.2 .0	6.0 19.2 .0	6.8 37.7	76.4 8.3 101.1 .0 -2.8	10.5 300.0 .0
TOTAL AWT -12.0	.5	12.9	-12.2	-21.2	-18.4	-22.1	-31.4	-57.4	-100.0	-100.0

SOURCE : 17 CFS - curing (intenral) - conveyor belt / motor 2

				FF	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 5.0 .0 .0	76.4 5.1 .2 .0	76.4 5.1 .6 .0	76.4 5.1 2.2 .0	76.4 5.3 5.8 .0 2.8	76.4 5.5 11.2 .0	76.4 5.9 19.1 .0	76.4 6.8 37.5 .0	8.2 100.6 .0	.0
TOTAL AWT -11.9	. 6	12.9	-12.1	-21.0	-18.2	-21.9	-31.3	-57.0-	-100.0-	-100.0

SOURCE : 18 CFS - curing (intenral) - conveyor belt / motor 3

				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 .0 .0 .0	76.4 .0 .2 .0	76.4 .0 .6 .0 7.0	76.4 .0 2.2 .0 15.0	76.4 .0 5.8 .0 15.0	76.4 .0 11.2 .0 14.9	76.4 .0 19.1 .0 10.2	76.4 .0 37.5 .0 4.0	76.4 .0 100.6 .0 -1.6	300.0
TOTAL AWT -6.5	6.2	19.5	-4.1	-19.6	-25.2	-34.5	-40.8	-55.9	-100.0	-100.0

SOURCE : 19 CFS - curing (intenral) - conveyor belt / motor 4

				FF	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.4 .0 .0 .0	76.4 .0 .2 .0 -3.0	76.4 .0 .6 .0 7.1	76.4 .0 2.2 .0 15.0	76.4 .0 5.8 .0 15.0	76.4 .0 11.3 .0 14.9	76.4 .0 19.3 .0	.0 37.7	76.4 .0 101.1 .0 -1.6	300.0
TOTAL AWT -6.5	6.1	19.4	-4.2	-19.6	-25.2	-34.6	-40.9	-56.2-	-100.0-	-100.0

SOURCE : 20 CFS - curing (intenral) - conveyor belt / motor 5

				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.5 12.7 .0 .0 -4.4	76.5 15.4 .2 .0	76.5 18.4 .7 .0 9.9	76.5 21.4 2.2 .0 1.5	76.5 24.4 5.9 .0 -4.3	76.5 25.0 11.4 .0 -1.7	76.5 25.0 19.5 .0 -2.8	.0	76.5 25.0 102.3 .0 -2.5	76.5 25.0 300.0 .0 5
TOTAL AWT -24.3	-7.9	.9	-25.5	-27.6	-30.5	-43.3	-53.3	-74.4	-100.0	-100.0

SOURCE : 21

CFS - curing (in	cenral;) - COI								
				FI	REQUENC	CY Hz_				
						1k				
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE						76.6				
BARRIER AIR ABSORPTION	.0	15.1	18.0	21.1	5.9	25.0 11.5	19.7	38.5	103.3	300.0
TEMP & WIND GROUND	.0 -4 4	.0	.0	.0 1 3	.0 -4 4	11.5 .0 -1.4	.0 -2 8	.0 -3 3	.0 -2 4	.0 -3 4
TOTAL AWT -24.1										
SOURCE : 22		7.								
CFS - processing	(exter	•			PEOLIENC	CY Hz_				
	31.5					1k			8k	16k
POWER LEVEL										
DISTANCE						.0 77.2				
BARRIER	7.1	8.8	11.0	12.7	15.4	18.4	21.4	24.4	25.0	25.0
AIR ABSORPTION TEMP & WIND	.0	. 2	. 7	2.4	6.3	12.3 .0 -2.2	21.0	40.9	110.3	300.0
GROUND	-4.0	.9	6.2	-2.4	-3.1	-2.2	-2.5	-2.7	-2.9	-3.6
TOTAL AWT 8.9	30.7	27.0	7.9	14.0	7.1	-5.7	-19.1	-45.9	-100.0	-100.0
SOURCE : 23 CFS - processing	(exter	nal) ·	- RTT	revers	ing					
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY						93.0				
DISTANCE BARRIER						76.5 .0				
AIR ABSORPTION		.2				11.4				
TEMP & WIND GROUND						.0 15.0				
TOTAL AWT -6.6	-14.0	1.3	-9.4	-14.7	-8.4	-9.9	-15.4	-31.8	-100.0	-100.0
SOURCE : 24	, .	7.			. ,					
CFS - processing	(exter	mai) ·				ran CY Hz				
	31.5	63			~	1k		4k	8k	16k
POWER LEVEL DIRECTIVITY	100.0	102.0	106.0	109.0	108.0	101.0	94.0	89.0	83.0	.0
BARRIER	12.7	15.3	18.3	21.3	24.3	76.7 25.0	25.0	25.0	25.0	25.0
AIR ABSORPTION TEMP & WIND	.0	. 2	.7	2.2	6.0	11.6	19.8	38.8	104.2	300.0
GROUND	-4.4	.1	10.1	1.6	-4.3	11.6 .0 -1.9	-2.7	-3.2	-2.8	9
TOTAL AWT 4.0	15.0	9.7	.3	7.2	5.3	-10.4	-24.8	-48.3	-100.0	-100.0
SOURCE : 25 CFS - processing	(exter	nal) ·	- fork	lift						
				FI	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
DISTANCE	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
BARRIER AIR ABSORPTION	F 0	г 1	г 1	F 2	F 3		C 1	7 0	0 (100
AIR ABSORPTION TEMP & WIND GROUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL AWT 5.3	24.4	19.7	6.6	1.4	2.1	2.4	-5.8	-32.5	-100.0	-100.0
SOURCE : 26 CFS - processing	(exte	nal) -	- aggr	egate ı	unload					
				FI	REQUEN	CY Hz_				

	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	110.0	111.0	102.0	100.0	101.0	104.0	101.0	97.0 .0	105.0	.0
DISTANCE	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
BARRIER AIR ABSORPTION	.0	.0	.0	2.2	5.9	11.5	.0 19.7	38.6	103.5	300.0
TEMP & WIND GROUND	.0 -5.6	.2 .0 -3.0	. 0	. 0	. 0	. 0	.0 10.7	. 0	. 0	. 0
TOTAL AWT 12.5										
SOURCE : 27 CFS - processing		nal)	- silo	vent :	1					
				FI	REQUEN	CY Hz_				
	31.5						2k	4k	8k	16k
POWER LEVEL DIRECTIVITY							74.0			
	76.7									
BARRIER AIR ABSORPTION	5.0	5.0	5.0	5.0	5.0 6.0	5.1 11.6	5.1 19.8	5.1	5.3	5.5
TEMP & WIND GROUND	.0	.0	.0	.0	.0	.0	19.8 .0 -3.1	.0	.0	.0
TOTAL AWT 2.7										
SOURCE : 28										
CFS - processing	(exte	rnal)								
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY							74.0			
DISTANCE BARRIER	76.7						76.7 5.1			
ATR ABSORPTION	0	2	7	2 2	6.0	11 6	19 8	38 7	103 9	300 0
TEMP & WIND GROUND	.0	.0	.0 9.4	.0 .6	.0 -4.6	.0 5	.0 -3.3	.0 -2.5	.0 -2.5	.0 -4.2
TOTAL AWT 2.9										
TOTAL AWT 16.5 SINGLE POINT CAL ENM CALC MODULE			20.7	17.8	13.2	7.4	5	-19.1	-73.3	-88.0
FILENAMES C:\ENM\SOURCES\	2118500	5A\506	A-3							
2118506A.GEN C:\ENM\MAPS\211	8506A\	506A								
OUT1 file and R	NK1 fil	le								
TEMP (deg C) 25.0		MIDITY 50.0	(%)							
WIND SPEED (m/se		ND DIR	(deg)							
TEMP GRAD (deg C	/100m)									
X= 3827.000 Y	= 1335	5.000	Z=	31.20	00					
SOURCE : 13 CFS - processing	(avt a	cnal \	- baglel	hoe						
CID PIOCESSING	(CALE				o ⊑r∩rama∗r	TV U~				
							01-			
			125				2k			16k
POWER LEVEL	95 N	95 N	95 N	95 N	95 N	95 N	95 N	95 N	95 N	Λ

				FR	EQUENC	Y Hz				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	95.0	95.0	95.0	95.0	95.0	95.0	95.0 .0	95.0	95.0 .0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 4.9 .0 .0	77.1 4.7 .2 .0 2	77.1 4.0 .7 .0 11.5	77.1 2.7 2.3 .0 4.4	77.1 1.0 6.2 .0 -2.7	77.1 .0 12.1 .0 -4.9	77.1 .0 20.6 .0 -1.7	.0	77.1 .0 108.2 .0 -3.0	.0
TOTAL AWT 13.9	17.6	13.3	1.7	8.5	13.4	10.8	9	-20.1	-87.3	-100.0

SOURCE: 14 CFS - processing (external) - FEL

CFS - processing	(exter	nal) -	- FEL							
				FR	EQUENC	CY Hz_				
				250						
POWER LEVEL DIRECTIVITY	94.0	100.0	100.0	106.0	98.0	101.0	98.0	92.0	86.0	.0
				77.0						
BARRIER AIR ABSORPTION	4.9	4.7	4.0	2.7	1.0	.0 12.0	20.6	.0 40.2	.0	300.0
TEMP & WIND	.0	. 0	.0	2.3 .0 4.4	.0	.0	.0	.0	.0	.0
GROUND	-4.6	2	11.5	4.4	-2.7	-4.9	-1.7	-2.2	-3.0	-3.8
TOTAL AWT 19.2	16.6	18.3	6.7	19.5	16.4	16.8	2.1	-23.0	-96.2-	-100.0
SOURCE : 15 CFS - curing (int	enral)	- FEI	Ĺ							
				FR	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY				96.0						
	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
BARRIER AIR ABSORPTION	5.0	5.0	5.1	5.1	6.1	11.9	20.3	39.8	106.9	300.0
TEMP & WIND	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0
GROUND	-4.4	. 2	10.0	1.4	-4.3	-1.7	-2.8	-3.3	-2.5	4
TOTAL AWT 5.5	6.4	7.7	-2.7	10.2	4.1	-1.5	-12.0	-37.4-	-100.0-	-100.0
SOURCE : 16 CFS - curing (int	enral)	- COI								
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0			65.0 .0		58.0	.0
DISTANCE	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
BARRIER	5.0	5.0	5.1	5.1	5.1	5.3	5.5	6.0	6.9	8.4
AIR ABSORPTION TEMP & WIND	. 0	. 2	. 7	2.3	6.1	11.8	20.2	39.6	.0	300.0
GROUND	-4.4	. 2	10.0	5.1 2.3 .0 1.4	-4.3	-1.6	-2.8	-3.3	-2.4	-1.4
TOTAL AWT -11.3										
SOURCE : 17 CFS - curing (int	enral)	- coi	nveyor	belt /	motor	2				
				FR	EQUENC	Y Hz_				
	31 5	63		250				4 k-	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
BARRIER	5.0	5.0	5.1	5.1	5.1	5.3	5.5	6.0	6.8	8.3
TEMP & WIND	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	-4.4	.1	9.9	1.3	-4.4	-1.5	-2.8	-3.3	-2.4	-2.9
TOTAL AWT -11.2	5	10.8	-12.5	-11.6	-11.7	-24.4	-34.7	-56.9-	-100.0-	-100.0
SOURCE : 18 CFS - curing (int	enral)	- coi	nvevor	belt /	motor	- 3				
J .			_	FR						
	31.5	63		250					8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	. 0
DISTANCE BARRIER	.0.9	.0.9 .0	.0.9	76.9 .0	9.07	.0.9	.0.9	.0.9	70.9 .0	.0.9
AIR ABSORPTION	. 0	. 2	. 7	2.3	6.1	11.8	20.2	39.4	105.9	300.0
TEMP & WIND GROUND	.0 -4.9	.0 -1.1	. 0 9. 9	.0 2.3 .0 12.6	.0 4.0	.0 -2.4	.0 -5.3	.0 7	.0 -3.6	.0 -2.5
TOTAL AWT -7.9										
TOTAL AWT -7.9		1/.1	- / . 4	-1/./	-15.0	-18.3	-20./	-53.5	-100.0-	-100.0

SOURCE : 19 CFS - curing (intenral) - conveyor belt / motor 4

				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE BARRIER						76.9 .0				
BARRIER AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.3	6.1	11.9	20.3	39.6	106.5	300.0
GROUND	-4.9	-1.1	9.9	12.6	4.1	-2.3	-5.3	7	-3.7	-2.5
TOTAL AWT -8.0	4.9	17.0	-7.5	-17.8	-15.1	-18.4	-26.8	-53.8-	-100.0-	-100.0
SOURCE : 20 CFS - curing (int	enral)	- cor	nveyor	belt /	motor	s 5				
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY						68.0				
DISTANCE BARRIER						77.0 25.0				
AIR ABSORPTION	. 0	. 2	.7	2.3	6.2	12.0	20.5	40.0	107.6	300.0
TEMP & WIND GROUND	.0 -3.8	.0 1.5	4.9	-3.1	.0 -1.6	.0 -2.3	.0 -2.9	-2.4	8	.0
TOTAL AWT -25.3	-9.0	-1.1	-20.9	-23.6	-33.9	-43.7	-54.5	-77.7-	-100.0-	-100.0
SOURCE : 21 CFS - curing (int	enral)	- cor	nveyor	belt /	motor	c 6				
				FF	REQUENC	CY Hz_				
						1k				
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE						77.1			77.1	
BARRIER AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.3	6.2	25.0 12.1	20.6	40.3	108.5	300.0
TEMP & WIND GROUND	.0 -3.8	.0 1.6	.0 4.7	.0 -3.2	.0 -1.5	.0 -2.4	.0 -3.0	.0 -2.2	.0 -2.7	.0 -3.7
TOTAL AWT -25.1	-8.9	9	-20.6	-23.3	-33.9	-43.8	-54.7	-78.2	-100.0-	-100.0
SOURCE : 22 CFS - processing	(exter	nal) -	- RTT r	nanv						
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	111.0	114.0	103.0	104.0	103.0	100.0	98.0	94.0	88.0	.0
DISTANCE BARRIER	77.7	77.7	77.7	77.7	77.7	77.7 18.2	77.7	77.7	77.7	77.7
AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.5	6.6	12.9	22.0	42.8	115.6	300.0
GROUND	-3.6	2.0	3.3	-3.6	3	12.9 .0 -3.1	-2.1	-3.0	-3.3	-2.3
TOTAL AWT 8.4	29.9	25.5	10.5	14.8	3.8	-5.7	-20.7	-47.7-	-100.0-	-100.0
SOURCE : 23 CFS - processing	(exter	nal) -	- RTT 1	reversi	.ng					
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	57.0 .0	75.0 .0	75.0 .0	79.0 .0	89.0	93.0	91.0	87.0	77.0 .0	.0
DISTANCE	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
BARRIER AIR ABSORPTION	.0	.2	.7	2.8	6.2	.0 12.0 .0	20.5	40.0	107.5	300.0
TEMP & WIND GROUND	.0 -4.6	.0 3	.0 11.4	.0 4.4	.0 -2.7	.0 -4.8	.0 -1.8	.0 -2.2	.0 -3.0	.0 -3.8
TOTAL AWT 10.4										
SOURCE : 24 CFS - processing	(exter	nal) -	- dust	collec	ctor /	fan				
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k

POWER LEVEL DIRECTIVITY	100.0	102.0	106.0	109.0	108.0	101.0	94.0	89.0	83.0	.0
DISTANCE		77.1								
BARRIER AIR ARSORPTION	12.7	15.3	18.3	21.3	24.3	25.0	25.0	25.0 40.6	25.0	25.0 300 0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-3.8	1.6	4.9	-3.1	-1.8	-2.3	-2.9	-2.6	2	-3.3
TOTAL AWT 4.5		7.8	5.0	11.3	2.1	-11.0	-26.1	-51.2	-100.0-	-100.0
SOURCE : 25 CFS - processing		rnal) -	- fork	lift						
1 2	•			ים	P C T T C NT	TV UP				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	.0	.0	.0	. 0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
BARRIER ATR ARSORPTION	5.0	5.0	5.1	5.1	5.2	5.3 12 0	5.6	6.2 40 0	7.3	9.1
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-4.4	. 2	10.1	1.5	-4.3	-1.8	-2.7	-3.2	-2.6	.3
TOTAL AWT 8.5	23.3	17.6	6.2	11.1	9.0	.5	-9.4	-32.0	-100.0-	-100.0
SOURCE : 26										
CFS - processing				_						
				F	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	110.0	111.0	102.0	100.0	101.0	104.0	101.0	97.0	105.0	.0
DISTANCE	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
BARRIER	4.9	4.7	4.0	2.8	1.0	.0	. 0	.0	.0	0.
TEMP & WIND	.0	.0	. 0	2.3	.0	.0	20.7	.0	.0	.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	-4.6	2	11.5	4.4	-2.7	-4.9	-1.7	-2.2	-2.9	-3.7
TOTAL AWT 21.6	32.6	29.2	8.6	13.4	19.3	19.7	4.9	-18.2	-77.8	-100.0
SOURCE : 27 CFS - processing		rnal) -	- gilo	went 1	ı					
or b processing	(01100	,				3V 11-				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
DISTANCE BARRIER	5.0									77.1 5.0
AIR ABSORPTION	.0	.2		2.4	6.3	12.2	5.0 20.8	40.6	109.3	300.0
TEMP & WIND	.0		.0				.0			
GROUND	-3.7						-2.8			
TOTAL AWT 1.7	5.5	-2.1	-1.2	7.8	.6	-10.7	-26.1	-51.1	-100.0-	-100.0
SOURCE : 28 CFS - processing		rnal) -	- silo	vent 2	2					
				F	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY		82.0					74.0			
DISTANCE	77.1	77 1	77 1	77 1	77 1	77 1	77.1	77 1	77 1	77 1
BARRIER	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.9	4.9
AIR ABSORPTION	.0	. 2	.7	2.4	6.3	12.2	20.8	40.5	109.1	300.0
TEMP & WIND GROUND	. 0	.0 1.8	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL AWT 1.7	5.5	-2.1	9	7.9	.3	-10.5	-26.5	-51.1	-100.0-	-100.0

TOTAL AWT 24.6 35.0 31.7 15.4 23.0 22.4 22.1 7.8 -14.9 -77.0 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE

FILENAMES
C:\ENM\SOURCES\2118506A\506A-3
2118506A.GEN

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C:\ENM\MAPS\2118506A\506A
```

OUT1 file and RNK1 file

TEMP (deg C) HUMIDITY (%) 25.0 50.0

WIND SPEED (m/sec) WIND DIR (deg)

TEMP GRAD (deg C/100m)

X= 4143.000 Y= 1967.000 Z= 31.200

SOURCE : 13

CFS - processing (external) - backhoe

				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	95.0 .0	95.0 .0	95.0	95.0 .0	95.0	95.0	95.0 .0	95.0 .0	95.0 .0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 .0 .0 .0	77.1 .0 .2 .0 -1.4	77.1 .0 .7 .0	77.1 .0 2.3 .0 14.6	77.1 .0 6.2 .0 7.3	77.1 .0 12.1 .0 .3	77.1 .0 20.7 .0 -4.6	77.1 .0 40.4 .0 -3.8	77.1 .0 108.7 .0 -2.8	.0
TOTAL AWT 8	.7 22.9	19.1	7.2	. 9	4.4	5.5	1.8	-18.7	-88.0	-100.0

SOURCE : 14

CFS - processing (external) - FEL

				FR	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	94.0	100.0	100.0	106.0	98.0	101.0	98.0	92.0	86.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 .0 .0 .0	77.1 .0 .2 .0 -1.4	77.1 .0 .7 .0	77.1 .0 2.3 .0 14.6	77.1 .0 6.2 .0 7.2	77.1 .0 12.1 .0 .3	77.1 .0 20.7 .0 -4.6	77.1 .0 40.4 .0 -3.8	.0	77.1 .0 300.0 .0 -2.7
TOTAL AWT 13.8	21.9	24.1	12.2	12.0	7.4	11.5	4.8	-21.7	-97.0	-100.0

SOURCE : 15 CFS - curing (intenral) - FEL

				FR	EQUENC.	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	90.0	90.0	96.0	88.0	91.0	88.0	82.0	76.0 .0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 5.0 .0 .0 -4.5	77.1 5.0 .2 .0 1	77.1 5.1 .7 .0 11.2	77.1 5.1 2.3 .0 3.5	77.1 5.2 6.2 .0 -3.3	77.1 5.3 12.1 .0 -4.3	77.1 5.6 20.6 .0 -2.5	77.1 6.2 40.3 .0 -2.2	77.1 7.2 108.4 .0 -2.5	77.1 8.9 300.0 .0 -3.2
TOTAL AWT 4.9	6.4	7.8	-4.0	8.0	2.8	.8	-12.8	-39.3-	-100.0-	-100.0

SOURCE : 16 CFS - curing (intenral) - conveyor belt / motor 1

				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.1 5.0 .0 .0 -4.5	77.1 5.0 .2 .0 1	77.1 5.1 .7 .0 11.1	77.1 5.1 2.3 .0 3.5	77.1 5.2 6.2 .0 -3.3	77.1 5.3 12.1 .0 -4.3	77.1 5.6 20.6 .0 -2.5	77.1 6.2 40.2 .0 -2.2	77.1 7.2 108.2 .0 -2.5	.0
TOTAL AWT -11.8	6	10.9	-14.0	-14.0	-13.2	-22.1	-35.8	-59.2-	-100.0	-100.0

SOURCE : 17 CFS - curing (intenral) - conveyor belt / motor 2

____FREQUENCY Hz_

	31 5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0		80.0	74.0	72.0		65.0	62.0	58.0	.0
	77.0					77.0		77.0		
BARRIER	. 0	. 0	. 0	.0	.0	.0	.0	.0	. 0	. 0
AIR ABSORPTION TEMP & WIND	.0 .0 -5.0	.2	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0
GROUND	-5.0	-1.4	10.0	14.6	7.2	. 3	-4.6	-3.7	-2.8	-2.7
TOTAL AWT -8.3 SOURCE : 18	4.9	17.2	-7.7	-20.0	-18.5	-21.4	-28.0	-51.5-	-100.0-	-100.0
CFS - curing (in	tenral)	- cor	veyor	belt /	motor	3				
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE						77.1				
BARRIER AIR ABSORPTION TEMP & WIND	5.0	5.0	5.0	2.3	6.2	5.2 12.1	20.6	40.3	6.5	300.0
TEMP & WIND GROUND	.0 -4.5	.0	11 1	.0	.0	.0	.0	.0	.0	.0
TOTAL AWT -11.8										
SOURCE : 19 CFS - curing (in										
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
BARRIER AIR ABSORPTION	5.0	5.0	5.0	5.0 2.3	5.1	5.1 12.2 .0	5.2	5.4	5.9	6.6 300.0
TEMP & WIND GROUND	.0 -4.5	.0	.0 11 1	.0	.0	.0 -4.3	.0 -2 5	.0	.0 -2 5	.0 -3.2
GROOND	1.5	. 2		3.3	5.5	1.5	2.5	2.2	2.5	5.2
TOTAL AWT -11.9	7	10.9	-13.9	-14.1	-13.2	-22.1	-35.6	-58.9-	-100.0-	-100.0
	7	10.9	-13.9	-14.1	-13.2	-22.1	-35.6	-58.9-	-100.0-	-100.0
TOTAL AWT -11.9 SOURCE : 20 CFS - curing (in							-35.6	-58.9-	-100.0-	-100.0
SOURCE : 20			nveyor	belt /	/ moto:				-100.0-	-100.0
SOURCE : 20	tenral)	- cor	ıveyor	belt /	/ motor	s 5				
SOURCE : 20 CFS - curing (in	31.5	- cor	125	belt / FF 250 74_0	/ motor REQUENC 500	2 5 CY Hz 1k	2k	4k	8k	16k
SOURCE : 20 CFS - curing (int	31.5 77.0 .0	- cor 63 93.0 .0	125 80.0 .0	belt / FF 250 74.0 .0	7 motor REQUENCE 500 72.0 .0 77.2	1k 68.0 .0	2k 65.0 .0	4k 62.0 .0	8k 58.0 .0	16k .0 .0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0	- cor 63 93.0 .0 77.2	125 80.0 .0 77.2	belt / FF 250 74.0 .0 77.2 21.6	7 motor 7 motor 700 72.0 .0 77.2 24.6	1k 68.0 077.2	2k 65.0 .0 77.2	4k 62.0 .0 77.2 25.0	8k 58.0 .0 77.2	16k .0 .0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 77.2 12.8 .0	- cor 63 93.0 .0 77.2 15.6 .2	125 80.0 .0 77.2 18.6 .7	FF 250 74.0 .0 77.2 21.6 2.4 .0	7 motor 7 motor 7 motor 500 72.0 .0 77.2 24.6 6.3 .0	1k 68.0 .0 77.2 25.0 12.2 .0	2k 65.0 .0 77.2 25.0 20.9	4k 62.0 .0 77.2 25.0 40.7	8k 58.0 .0 77.2 25.0 109.6	16k .0 .0 77.2 25.0 300.0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 77.0 .0 77.2 12.8 .0 .0	- cor 63 93.0 .0 77.2 15.6 .2 .0	125 80.0 .0 77.2 18.6 .7 .0 6.5	FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2	7 motor 72.0 77.2 24.6 6.3 .0 -3.6	1k 68.0 077.2 25.0 12.2 0-2.2	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7	16k .0 .0 77.2 25.0 300.0 .0 -3.1
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 77.2 12.8 .0 .0	- cor 63 93.0 .0 77.2 15.6 .2 .0	125 80.0 .0 77.2 18.6 .7 .0 6.5	FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2	7 motor 72.0 77.2 24.6 6.3 .0 -3.6	1k 68.0 077.2 25.0 12.2 0-2.2	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7	16k .0 .0 77.2 25.0 300.0 .0 -3.1
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2	125 80.0 .0 77.2 18.6 .7 .0 6.5	FF 250 74.0 .0 77.2 21.6 2.4 .0 .0 -2.2 -24.9 belt /	7 motos 500 72.0 .0 77.2 24.6 6.3 .0 -3.6	1k 68.0 .0 77.2 25.0 12.2 .0 -2.2 -44.1	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7	16k .0 .0 77.2 25.0 300.0 .0 -3.1
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor	125 80.0 .0 77.2 18.6 .7 .0 6.5	FF belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt /	7 motor 72.0 72.0 0 77.2 24.6 6.3 0 -3.6 -32.4 / motor	1k 68.0 .0 .0 .77.2 .25.0 .0 .2.2	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7	16k .0 .0 77.2 25.0 300.0 .0 -3.1
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor	125 80.0 .0 77.2 18.6 .7 .0 6.5	FF belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt /	7 motor 72.0 72.0 0 77.2 24.6 6.3 0 -3.6 -32.4 / motor	1k 68.0 .0 77.2 25.0 12.2 .0 -2.2 -44.1	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7	16k .0 .0 77.2 25.0 300.0 .0 -3.1
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral)	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0	7 motor 72.0 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 8EQUENC	1k 68.0 0 77.2 25.0 12.2 0 0 -2.2 -44.1 1k 68.0	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7-	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0-	16k .0 .0 77.2 25.0 300.0 .0 -3.1 -100.0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 aveyor 125 80.0 .0 77.2	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2	7 motor 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 72.0 77.2 77.2 77.2 77.2 77.2 77.2	1k 68.0	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0-	16k .0 .0 .77.2 25.0 300.0 .0 -3.1 -100.0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4	7 motor 500 72.0 .0 77.2 24.6 6.3 .0 -3.6 -32.4 / motor 72.0 .0 72.0 .0 77.2 24.3 6.3	1k 68.0 77.2 25.0 12.2 -44.1 68.0 0 77.2 25.0 12.2 25.0 10.0 10.0	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0- 8k 58.0 .0 77.2 25.0 109.8	16k .0 .0 .77.2 25.0 300.0 .0 -3.1 -100.0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4	7 motor 500 72.0 .0 77.2 24.6 6.3 .0 -3.6 -32.4 / motor 72.0 .0 72.0 .0 77.2 24.3 6.3	1k 68.0 .0 77.2 25.0 -2.2 -44.1 1k 68.0 .0 .77.2 25.0 .0 .0	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0-	16k .0 .0 .77.2 25.0 300.0 .0 -3.1 -100.0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 ttenral) 31.5 77.0 .0 77.2 12.7 .0 .0 .3	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3 .2 .0 1.3	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3 .7 .0 6.3	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4 .0 -2.3	7 motor 72.0 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 72.0 72.0 72.0 72.0 .0 77.2 24.3 6.3 .0 -3.5	1k 68.0 .0 77.2 25.0 .0 .2.2 -44.1 1k 68.0 .0 .0 .0 .0 .12.2 1k 68.0 0 1k 68.0 00 1k 68.0 0 1k 68.0 0	2k 65.0 .0 77.2 25.0 20.9 .2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8 .0 -2.5	8k 58.0 .0 77.2 25.0 109.6 .3.7 -100.0- 8k 58.0 .0 77.2 25.0 109.8 .0 -2.9	16k .0 .0 77.2 25.0 300.0 .0 -3.1 -100.0 16k .0 .0 77.2 25.0 300.0 .0 -2.8
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.4 SOURCE : 22	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0 .0 -3.9	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3 .2 .0 1.3	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3 .7 .0 6.3	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4 .0 -2.3	7 motor 72.0 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 72.0 72.0 72.0 72.0 .0 77.2 24.3 6.3 .0 -3.5	1k 68.0 .0 77.2 25.0 .0 .2.2 -44.1 1k 68.0 .0 .0 .0 .0 .12.2 1k 68.0 0 1k 68.0 00 1k 68.0 0 1k 68.0 0	2k 65.0 .0 77.2 25.0 20.9 .2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8 .0 -2.5	8k 58.0 .0 77.2 25.0 109.6 .3.7 -100.0- 8k 58.0 .0 77.2 25.0 109.8 .0 -2.9	16k .0 .0 77.2 25.0 300.0 .0 -3.1 -100.0 16k .0 .0 77.2 25.0 300.0 .0 -2.8
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.4	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0 .0 -3.9	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3 .2 .0 1.3	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3 .7 .0 6.3	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4 .0 -2.3	7 motor 72.0 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 72.0 72.0 72.0 72.0 .0 77.2 24.3 6.3 .0 -3.5	1k 68.0 .0 77.2 25.0 .0 .2.2 -44.1 1k 68.0 .0 .0 .0 .0 .12.2 1k 68.0 0 1k 68.0 00 1k 68.0 0 1k 68.0 0	2k 65.0 .0 77.2 25.0 20.9 .2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8 .0 -2.5	8k 58.0 .0 77.2 25.0 109.6 .3.7 -100.0- 8k 58.0 .0 77.2 25.0 109.8 .0 -2.9	16k .0 .0 77.2 25.0 300.0 .0 -3.1 -100.0 16k .0 .0 77.2 25.0 300.0 .0 -2.8
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.4 SOURCE : 22	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0 .0 -3.9 -9.0 (exter	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3 .2 .0 1.3 9	125 80.0 .0 77.2 18.6 .7.0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3 .7.0 6.3	belt / 250 74.0 .0 77.2 21.6 2.4 .0 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4 .0 .0 -2.3	7 motor 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 72.0 .0 77.2 24.3 .0 77.2 24.3 6.3 .0 -3.5	1k 68.0 .0 77.2 25.0 .0 .2.2 -44.1 1k 68.0 .0 .0 .0 .0 .12.2 1k 68.0 0 1k 68.0 00 1k 68.0 0 1k 68.0 0	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8 .0 -2.5	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0- 8k 58.0 .0 77.2 25.0 109.8 .0 -2.9	16k .0 .0 77.2 25.0 300.0 .0 -3.1 -100.0 16k .0 .0 77.2 25.0 300.0 .0 -2.8
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.4 SOURCE : 22	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0 .0 -3.9 -9.0 (exter	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3 .2 .0 1.3 9	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 aveyor 125 80.0 .0 77.2 18.3 .7 .0 6.3	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4 .0 .0 -2.3 -24.6	7 motor 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 500 72.0 .0 77.2 24.3 6.3 .0 -3.5 -32.3	1k 68.0 077.2 25.0 12.2 0-2.2 -44.1 1k 68.0 077.2 25.0 12.2 0.0 -2.2	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8 .0 -2.5 -78.5-	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0-	16k .0 .0 .77.2 25.0 300.0 .0 -3.1 -100.0 16k .0 .0 .0 .0 -2.8 -100.0
SOURCE : 20 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.6 SOURCE : 21 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -25.4 SOURCE : 22	31.5 77.0 .0 77.2 12.8 .0 .0 -3.9 -9.0 tenral) 31.5 77.0 .0 77.2 12.7 .0 .0 -3.9 -9.0 (exter	- cor 63 93.0 .0 77.2 15.6 .2 .0 1.2 -1.1 - cor 63 93.0 .0 77.2 15.3 .2 .0 1.3 9 nal) -	125 80.0 .0 77.2 18.6 .7 .0 6.5 -22.9 1veyor 125 80.0 .0 77.2 18.3 .7 .0 6.3 -22.5	belt / FF 250 74.0 .0 77.2 21.6 2.4 .0 -2.2 -24.9 belt / FF 250 74.0 .0 77.2 21.3 2.4 .0 -2.3 -24.6 manv FF	7 motor 72.0 77.2 24.6 6.3 .0 -3.6 -32.4 7 motor 72.0 .0 77.2 24.3 .0 77.2 24.3 6.3 .0 -3.5	1k 68.0 77.2 25.0 12.2 .0 -2.2 -44.1 68.0 .0 77.2 25.0 12.2 .0 -2.3 -44.2	2k 65.0 .0 77.2 25.0 20.9 .0 -2.4 -55.6 2k 65.0 .0 77.2 25.0 20.9 .0 -2.5 -55.6	4k 62.0 .0 77.2 25.0 40.7 .0 -2.2 -78.7- 4k 62.0 .0 77.2 25.0 40.8 .0 -2.5 -78.5-	8k 58.0 .0 77.2 25.0 109.6 .0 -3.7 -100.0 - 8k 58.0 .0 77.2 25.0 109.8 .0 -2.9 -100.0	16k .0 .0 .77.2 .25.0 .300.0 .0 .3.1 -100.0 16k .0 .0 .77.2 .25.0 .300.0 .0 .0 .0 .100.0

DIDDOMILLERIA	_		_	^	^	0	0	0	0	0
DIRECTIVITY										
BARRIER	6.2	77.8 7.3	77.8 9.1	77.8 11.4	77.8 12.9	77.8 15.9	77.8 18.9	77.8 21.9	77.8 24.9	77.8 25.0
AIR ABSORPTION TEMP & WIND	.1	.2	.7	2.5		13.0	22.2	43.2	116.8	300.0
GROUND	-3.6	2.1	2.8	-3.7						
TOTAL AWT 9.8	30.5	26.6	12.6	16.0	6.1	-4.0	-18.3	-46.2	-100.0-	-100.0
SOURCE : 23										
CFS - processing	(exte	rnal) -	RTT	revers	ing					
				F	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	57.0 .0	75.0 .0	75.0 .0				91.0 .0		77.0	.0
DISTANCE		77.0			77.0	77.0	77.0	77.0	77.0	77.0
BARRIER AIR ABSORPTION TEMP & WIND	.0	.0	.0	.0	.0				.0 107.9	
TEMP & WIND	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0
TOTAL AWT 5.5	-15.1	8	-12.7	-14.9	-1.4	3.7	-2.0	-26.4-	-100.0-	-100.0
SOURCE : 24 CFS - processing		rnal) -	dust	collec	ctor /	fan				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY		102.0								
DISTANCE	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
BARRIER AIR ABSORPTION	12.8	77.2 15.5	18.5	21.5	24.5	25.0	25.0	25.0	25.0	25.0
TEMP & WIND	.0	.2 .0 1.2	.0	.0	.0	.0	.0	.0	.0	.0
GROUND										
TOTAL AWT 4.2	13.9	7.8	3.1	10.1	3.6	-11.2	-26.7	-51.9-	-100.0-	-100.0
SOURCE : 25 CFS - processing	(exte	nal) -	fork	lift						
				FI	FOIIEM	7V H7				
	21 5								01-	1615
		63								
POWER LEVEL DIRECTIVITY	101.0	100.0	99.0	97.0	93.0	93.0	91.0	.0	83.0	. 0
							77 1	77.1	77 1	77.1
DISTANCE	77.1	77.1	77.1	77.1	77.1	77.1	,,,,	0	//.1	Ω
BARRIER	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	.0	. 0 . 7 . 0	.0 2.3 .0	.0 6.2 .0	.0 12.1 .0	.0 20.6 .0	.0 40.3	.0 108.4 .0	.0 300.0 .0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0 .0 .0 -5.0	.0 .2 .0 -1.4	.0 .7 .0	.0 2.3 .0 14.6	.0 6.2 .0 7.3	.0 12.1 .0 .3	.0 20.6 .0 -4.6	.0 40.3 .0 -3.8	.0 108.4 .0 -2.8	.0 300.0 .0 -2.7
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2	.0 .0 .0 -5.0	.0 .2 .0 -1.4	.0 .7 .0	.0 2.3 .0 14.6	.0 6.2 .0 7.3	.0 12.1 .0 .3	.0 20.6 .0 -4.6	.0 40.3 .0 -3.8	.0 108.4 .0 -2.8	.0 300.0 .0 -2.7
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0 .0 -5.0	.0 .2 .0 -1.4	.0 .7 .0 10.0	.0 2.3 .0 14.6	.0 6.2 .0 7.3	.0 12.1 .0 .3	.0 20.6 .0 -4.6	.0 40.3 .0 -3.8	.0 108.4 .0 -2.8	.0 300.0 .0 -2.7
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26	.0 .0 -5.0	.0 .2 .0 -1.4	.0 .7 .0 10.0	.0 2.3 .0 14.6	.0 6.2 .0 7.3 2.4	.0 12.1 .0 .3	.0 20.6 .0 -4.6	.0 40.3 .0 -3.8	.0 108.4 .0 -2.8	.0 300.0 .0 -2.7
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE : 26	.0 .0 .0 -5.0 28.9	.0 .2 .0 -1.4	.0 .7 .0 10.0	.0 2.3 .0 14.6 3.0	.0 6.2 .0 7.3 2.4 unload	.0 12.1 .0 .3 3.5	.0 20.6 .0 -4.6	.0 40.3 .0 -3.8	.0 108.4 .0 -2.8	.0 300.0 .0 -2.7
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26	.0 .0 .0 -5.0 28.9 (exter	.0 .2 .0 -1.4 24.2 rnal) -	.0 .7 .0 10.0 11.2 aggre	.0 2.3 .0 14.6 3.0 egate v FF 250	.0 6.2 .0 7.3 2.4 unload 500	.0 12.1 .0 .3 3.5 CY Hz	.0 20.6 .0 -4.6 -2.1	.0 40.3 .0 -3.8 -25.6	.0 108.4 .0 -2.8 -99.6-	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY	.0 .0 .0 .0 -5.0 28.9 (exter 31.5 110.0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .0 10.0 11.2 aggre 125	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0	.0 6.2 .0 7.3 2.4 unload REQUENC 500 101.0 .0	.0 12.1 .0 .3 3.5 CY Hz	.0 20.6 .0 -4.6 -2.1 2k 101.0 .0	.0 40.3 .0 -3.8 -25.6 4k 97.0 .0	.0 108.4 .0 -2.8 -99.6-	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	.0 .0 .0 .0 -5.0 28.9 (exter 31.5 110.0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0	.0 6.2 .0 7.3 2.4 unload seeQUENG 500 101.0 .0	.0 12.1 .0 .3 3.5 CY Hz1k 104.0 .0 77.1	.0 20.6 .0 -4.6 -2.1 2k 101.0 .0	.0 40.3 .0 -3.8 -25.6 4k 97.0 .0	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE : 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	.0 .0 .0 .0 .0 .28.9 (exter 31.5 110.0 .0 .0	.0 .2 .0 -1.4 24.2 rnal) -	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0	.0 2.3 .0 14.6 3.0 egate v 250 100.0 .0 77.1 .0 2.4	0 6.2 .0 7.3 2.4 unload 500 101.0 .0 77.1 .0 6.3	.0 12.1 .0 .3 3.5 CY Hz	.0 20.6 .0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7	.0 40.3 .0 -3.8 -25.6 4k 97.0 .0 77.1 40.5	.0 108.4 .0 -2.8 -99.6-	.0 300.0 .0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE : 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	.0 .0 .0 .0 .0 .28.9 (exter 31.5 110.0 .0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0	.0 2.3 .0 14.6 3.0 egate v 250 100.0 .0 77.1 .0 2.4	0 6.2 .0 7.3 2.4 unload 500 101.0 .0 77.1 .0 6.3	.0 12.1 .0 .3 3.5 CY Hz	.0 20.6 .0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7	.0 40.3 .0 -3.8 -25.6 4k 97.0 .0 77.1 40.5	.0 108.4 .0 -2.8 -99.6-	.0 300.0 .0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	.0 .0 .0 .0 .0 .5.0 28.9 (exter 31.5 110.0 .0 .0 .0 .0 .0	.0 .2 .0 -1.4 24.2 63 111.0 .0 77.1 .0 .2 .0	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0 .7	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0 77.1 .0 2.4 .0 14.6	.0 6.2 .0 7.3 2.4 unload REQUENC 500 101.0 .0 77.1 .0 6.3 .0 7.3	.0 12.1 .0 .3 3.5 CY Hz	20.6 .0 .0 .4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0	-25.6 4k 97.0 -77.1 .0 40.5 .0	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0 77.1 .0 109.1 .0	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	.0 .0 .0 .0 .0 .5.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0 .7 .0 10.1	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0 77.1 .0 2.4 .0 14.6	0 6.2	.0 12.1 .0 .3 3.5 CY Hz	20.6 .0 .0 .4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0	-25.6 4k 97.0 -77.1 .0 40.5 .0	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0 77.1 .0 109.1 .0	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0	.0 .0 .0 .0 .0 .5.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0 .7 .0 10.1	.0 2.3 .0 14.6 3.0 14.6 250 100.0 .0 77.1 .0 2.4 .0 14.6	.0 6.2 .0 7.3 2.4 unload 500 101.0 .0 77.1 .0 6.3 .0 7.3	.0 12.1 .0 .3 3.5 2Y Hz	20.6 -0.0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0 -4.6	-25.6 4k 97.0 -0 40.5 -0 -16.9	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0 77.1 .0 109.1 .0	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	.0 .0 .0 .0 .0 .5.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0 .7 .0 10.1	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0 77.1 .0 2.4 .0 14.6	.0 6.2 .0 7.3 2.4 unload 500 101.0 .0 77.1 .0 6.3 .0 7.3	.0 12.1 .0 .3 3.5 2Y Hz	20.6 -0.0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0 -4.6	-25.6 4k 97.0 -0 40.5 -0 -16.9	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0 77.1 .0 109.1 .0	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	.0 .0 .0 .0 .0 .0 .5.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .2 .0 -1.4 24.2 (mal) -	.0 .7 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0 .7 .0 10.1	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0 77.1 .0 2.4 .0 14.6 5.9	0 6.2	.0 12.1 .0 .3 3.5 CY Hz 1k 104.0 .0 77.1 .0 12.2 .0 .3 14.4	20.6 .0 .0 .0 .0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0 -4.6 7.7	-25.6 4k 97.0 -3.8 -25.6 4k 97.0 0 40.5 0 -3.8	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0 77.1 .0 109.1 .0 -2.8	.0 300.0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	.0 .0 .0 .0 .0 .0 .28.9 (exter .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .2 .0 -1.4 24.2 (mal) - 63 111.0 .0 77.1 .0 .2 .0 -1.4 35.1	.0 .7 .7 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0 77.1 .0 2.4 .0 14.6 5.9 vent 1	.0 6.2 .0 7.3 2.4 2.10 2.4 2.10 2.4 2.10 2.0 2.0 2.0 2.0 2.0 3.0 7.3 10.3 10.3	.0 12.1 .0 .3 3.5 2Y Hz	20.6 .0.0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0 -4.6 7.7	-25.6 4k 97.0 -3.8 -77.1 -0 -3.8 -16.9	.0 108.4 .0 -2.8 -99.6- 8k 105.0 .0 77.1 .0 109.1 .0 -2.8 -78.4-	.0 300.0 .0 -2.7 -100.0 -16k .0 .0 -2.7 -100.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 7.2 SOURCE: 26 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing	.0 .0 .0 .0 .0 .0 .5.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .2 .0 .0 -1.4 24.2 cnal) - 63 111.0 .0 77.1 .0 .2 .0 -1.4 35.1 cnal) -	.0 .7 .0 10.0 11.2 aggre 125 102.0 .0 77.1 .0 .7 .0 10.1 14.1 silo	.0 2.3 .0 14.6 3.0 egate v FF 250 100.0 .0 77.1 .0 2.4 .0 14.6 5.9 vent 1	.0 6.2 .0 7.3 2.4 unload REQUENC 500 101.0 .0 77.1 .0 6.3 .0 7.3 10.3	.0 12.1 .0 .3 3.5 CY Hz	.0 20.6 .0 -4.6 -2.1 2k 101.0 .0 77.1 .0 20.7 .0 -4.6 7.7	.0 40.3 .0 -3.8 -25.6 4k 97.0 .0 77.1 .0 40.5 .0 -3.8 -16.9	.0 108.4 .0 -2.8 -99.6- -8k 105.0 .0 77.1 .0 109.1 .0 -2.8 -78.4-	.0 300.0 .0 -2.7 -100.0 -16k .0 .0 -2.7 -100.0

BARRIER	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
AIR ABSORPTION TEMP & WIND	.0	.0	. 0	5.0 2.4 .0 -3.7	6.3	.0	.0	.0	.0	.0
GROUND	-3.6	2.1	3.0	-3.7	3	-3.0	-2.4	-1.8	-2.8	-2.1
TOTAL AWT 1.6	5.3	-2.5	.1	8.1	2	-10.5	-26.7	-52.2-	-100.0-	-100.0
SOURCE : 28	, .									
CFS - processing	(exter	nal) -	- silo	vent 2						
				FR	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	84.0	82.0	86.0	89.0	88.0	81.0	74.0	69.0	63.0	.0
DIRECTIVITY										
DISTANCE BARRIER	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2 .0
AIR ABSORPTION TEMP & WIND	.0	.2	.7	.0 2.4 .0 6.3	6.3	12.2	20.8	40.7	109.6	300.0
GROUND	-4.5	4	8.6	6.3	-1.6	-5.0	6	-3.4	-2.7	-2.1
TOTAL AWT 4.4	11.2	5.1	5	3.2	6.1	-3.4	-23.4	-45.5-	-100.0-	-100.0
TOTAL AWT 20.4	39.2	36.4	19.2	19.5	15.4	17.2	10.7	-13.4	-77.5	-88.0
SINGLE POINT CALC			27.2	17.0	10.1		10.7	10.1	,,,,	00.0
ENM CALC MODULE										
FILENAMES C:\ENM\SOURCES\2	2118506	SA\506 <i>I</i>	A-3							
2118506A.GEN C:\ENM\MAPS\2118	3506A\5	06A								
OUT1 file and R										
TEMP (deg C) 25.0		50.0	(%)							
WIND SPEED (m/sec			(deg)							
TEMP GRAD (deg C,	/100m)									
TEMP GRAD (deg C, .0 X= 3948.000 Y=		1.000	Z=	22.20	10					
.0 X= 3948.000 Y=		1.000	Z=	22.20	0					
.0	= 2044				00					
.0 X= 3948.000 Y= SOURCE : 13	= 2044		- backl	hoe		CY Hz				
.0 X= 3948.000 Y= SOURCE : 13	= 2044 (exter	rnal) -	- backl	hoe FR	REQUENC				 8k	
.0 X= 3948.000 Y: SOURCE : 13 CFS - processing	= 2044 (exter	rnal) -	- backl	noe FR 250	EQUENC 500	1k	2k			
.0 X= 3948.000 Y= SOURCE : 13	= 2044 (exter 31.5 95.0	63 95.0	- backl 125 95.0	noe FR 250	EQUENC 500 95.0	1k 95.0	2k 95.0	95.0	95.0	.0
.0 X= 3948.000 Y: SOURCE : 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	= 2044 (exter 31.5 95.0 .0	63 95.0 .0	125 95.0 .0	250 95.0 .0	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	95.0 .0	95.0 .0	.0 .0
.0 X= 3948.000 Y: SOURCE : 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	= 2044 (exter 31.5 95.0 .0	63 95.0 .0	125 95.0 .0	250 95.0 .0	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	95.0 .0	95.0 .0	.0 .0
.0 X= 3948.000 Y: SOURCE : 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	= 2044 (exter 31.5 95.0 .0	63 95.0 .0	125 95.0 .0	250 95.0 .0	500 95.0 .0	1k 95.0 .0	2k 95.0 .0	95.0 .0	95.0 .0	.0 .0
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 95.0 .0 76.1 .0 .0	63 95.0 .0 76.1 .0 .2 .0	125 95.0 .0 76.1 .0 .6	95.0 95.0 .0 76.1 .0 2.1 .0	500 95.0 .0 76.1 .0 5.6 .0	1k 95.0 .0 76.1 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8	95.0 .0 76.1 .0 36.6 .0 4.5	95.0 .0 76.1 .0 98.0 .0	.0 .0 76.1 .0 300.0 .0 -5.2
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 95.0 .0 76.1 .0 .0	63 95.0 .0 76.1 .0 .2 .0	125 95.0 .0 76.1 .0 .6	95.0 95.0 .0 76.1 .0 2.1 .0	500 95.0 .0 76.1 .0 5.6 .0	1k 95.0 .0 76.1 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8	95.0 .0 76.1 .0 36.6 .0 4.5	95.0 .0 76.1 .0 98.0 .0	.0 .0 76.1 .0 300.0 .0 -5.2
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14	31.5 95.0 .0 76.1 .0 .0 -5.6	63 95.0 .0 76.1 .0 .2 .0 -3.1	125 95.0 .0 76.1 .0 .6 .0	95.0 95.0 .0 76.1 .0 2.1 .0	500 95.0 .0 76.1 .0 5.6 .0	1k 95.0 .0 76.1 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8	95.0 .0 76.1 .0 36.6 .0 4.5	95.0 .0 76.1 .0 98.0 .0	.0 .0 76.1 .0 300.0 .0 -5.2
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0	31.5 95.0 .0 76.1 .0 .0 .0 -5.6 24.4	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8	125 95.0 0 76.1 0 6.0 6.7 11.5	95.0 95.0 0 76.1 .0 2.1 .0 15.0	500 95.0 .0 76.1 .0 5.6 .0 15.0	1k 95.0 .0 76.1 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8	95.0 .0 76.1 .0 36.6 .0 4.5	95.0 .0 76.1 .0 98.0 .0 -1.1	.0 .0 76.1 .0 300.0 .0 -5.2
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14	31.5 95.0 .0 76.1 .0 .0 -5.6 24.4	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8	125 95.0 .0 76.1 .0 .6 .0 6.7	FF 250 95.0 .0 76.1 .0 2.1 .0 15.0 1.7	95.0 95.0 .0 76.1 .0 5.6 .0 15.0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8	95.0 .0 76.1 .0 36.6 .0 4.5	95.0 .0 76.1 .0 98.0 .0 -1.1	.0 .0 76.1 .0 300.0 .0 -5.2
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing	31.5 95.0 .0 76.1 .0 .0 -5.6 24.4 (exter	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8	125 95.0 .0 76.1 .0 .6.0 6.7 11.5	750 95.0 95.0 76.1 .0 2.1 .0 15.0	500 95.0 95.0 76.1 .0 5.0 15.0 -1.8	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3	95.0 .0 76.1 .0 98.0 .0 -1.1 -78.0-	.0 .0 76.1 .0 300.0 -5.2 -100.0
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14	31.5 95.0 .0 76.1 .0 .0 -5.6 24.4 (exter	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8	125 95.0 .0 76.1 .0 .6.0 6.7 11.5	750 95.0 95.0 76.1 .0 2.1 .0 15.0	500 95.0 95.0 76.1 .0 5.0 15.0 -1.8	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3	95.0 .0 76.1 .0 98.0 .0 -1.1 -78.0-	.0 .0 76.1 .0 300.0 -5.2 -100.0
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	= 2044 (exter 31.5 95.0 .0 .0 .0 .5.6 24.4 (exter 31.5 94.0 .0	63 95.0 0 76.1 0 22 0 -3.1 21.8 cnal) -	125 95.0 0 76.1 0 6.7 11.5 - FEL 125 100.0 0	76.1 .0 25.0 76.1 .0 15.0 1.7 FF 250 106.0 .0	76.1 .0 5.0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 98.0 .0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 76.2	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3	95.0 .0 76.1 .0 98.0 .0 -1.1 -78.0-	.0 .0 76.1 .0 300.0 .0 -5.2 -100.0
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	= 2044 (exter 31.5 95.0 .0 .0 .0 .5.6 24.4 (exter 31.5 94.0 .0	63 95.0 0 76.1 0 22 0 -3.1 21.8 cnal) -	125 95.0 0 76.1 0 6.7 11.5 - FEL 125 100.0 0	76.1 .0 25.0 76.1 .0 15.0 1.7 FF 250 106.0 .0	76.1 .0 5.0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 98.0 .0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 76.2	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3	95.0 .0 76.1 .0 98.0 .0 -1.1 -78.0-	.0 .0 76.1 .0 300.0 .0 -5.2 -100.0
.0 X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	= 2044 (exter 31.5 95.0 .0 .0 .0 .5.6 24.4 (exter 31.5 94.0 .0	63 95.0 0 76.1 0 22 0 -3.1 21.8 cnal) -	125 95.0 0 76.1 0 6.7 11.5 - FEL 125 100.0 0	76.1 .0 25.0 76.1 .0 15.0 1.7 FF 250 106.0 .0	76.1 .0 5.0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 98.0 .0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 76.2	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3	95.0 .0 76.1 .0 98.0 .0 -1.1 -78.0-	.0 .0 76.1 .0 300.0 .0 -5.2 -100.0
X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 95.0 .0 76.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8 63 100.0 .0 76.2 .0 .2 .0 -3.1	125 95.0 0.0 76.1 0.0 6.7 11.5 - FEL 125 100.0 0.6 0.0 6.2 0.0 6.7	FF 250 95.0 .0 2.1 .0 15.0 1.7 FF 250 106.0 .0 .0 2.1 .0 15.0 15.0 15.0 15.0	500 95.0 .0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 500 98.0 .0 76.2 .0 5.6 .0 15.0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 76.2 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3 4k 92.0 .0 76.2 .0 36.6 .0	95.0 .0 76.1 .0 98.0 -1.1 -78.0-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TOTAL AWT 8.1	31.5 95.0 .0 76.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8 63 100.0 .0 76.2 .0 .2 .0 -3.1	125 95.0 0.0 76.1 0.0 6.7 11.5 - FEL 125 100.0 0.6 0.0 6.2 0.0 6.7	FF 250 95.0 .0 2.1 .0 15.0 1.7 FF 250 106.0 .0 .0 2.1 .0 15.0 15.0 15.0 15.0	500 95.0 .0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 500 98.0 .0 76.2 .0 5.6 .0 15.0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 76.2 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3 4k 92.0 .0 76.2 .0 36.6 .0	95.0 .0 76.1 .0 98.0 -1.1 -78.0-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AGRIER AGRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 95.0 .0 76.1 .0 .0 -5.6 24.4 (exter 31.5 94.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8 enal) - 63 100.0 .0 76.2 .0 .2 .0 .3 .1 26.8	125 95.0 0 76.1 .0 6.0 6.7 11.5 - FEL 125 100.0 .0 76.2 .0 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	FF 250 95.0 .0 2.1 .0 15.0 1.7 FF 250 106.0 .0 .0 2.1 .0 15.0 15.0 15.0 15.0	500 95.0 .0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 500 98.0 .0 76.2 .0 5.6 .0 15.0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 76.2 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3 4k 92.0 .0 76.2 .0 36.6 .0	95.0 .0 76.1 .0 98.0 -1.1 -78.0-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
X= 3948.000 Y: SOURCE: 13 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 2.0 SOURCE: 14 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1 SOURCE: 15	31.5 95.0 .0 76.1 .0 .0 -5.6 24.4 (exter 31.5 94.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 95.0 .0 76.1 .0 .2 .0 -3.1 21.8 enal) - 63 100.0 .0 76.2 .0 .2 .0 .3 .1 26.8	125 95.0 06.1 06.7 11.5 - FEL 125 100.0 76.2 06.7 16.5	FF 250 95.0 .0 2.1 .0 15.0 1.7 FF 250 106.0 .0 .0 2.1 .0 15.0 15.0 15.0 15.0	500 95.0 .0 76.1 .0 5.6 .0 15.0 -1.8 REQUENC 500 98.0 .0 76.2 .0 5.6 .0 15.0	1k 95.0 .0 76.1 .0 10.9 .0 15.0 -7.0 CY Hz 1k 101.0 .0 10.9 .0 10.9 .0 15.0	2k 95.0 .0 76.1 .0 18.7 .0 10.8 -10.6	95.0 .0 76.1 .0 36.6 .0 4.5 -22.3 4k 92.0 .0 76.2 .0 36.6 .0	95.0 .0 76.1 .0 98.0 -1.1 -78.0-	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

31.5 63 125 250 500 1k 2k 4k 8k 16k

POWER LEVEL DIRECTIVITY	84.0			96.0 .0						
DISTANCE	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
BARRIER AIR ABSORPTION	5.0	5.1	5.1	5.2	5.3	5.6	6.1	7.0	8.6	10.8
TEMP & WIND	.0 .0 -5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-5.1	-1.6	9.7	11.4	2.9	-3.1	-5.2	-1.6	-2.7	-2.8
TOTAL AWT 3.4	7.9	10.3	-1.6	1.2	-1.9	1.6	-7.6	-36.0-	100.0-	100.0
SOURCE : 16 CFS - curing (int	enral)	- cor	vevor	belt /	motor	1				
			=	FR						
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
	76.1									
BARRIER	5.0	5.1	5.1	5.2			6.1 18.6			10.8
BARRIER AIR ABSORPTION TEMP & WIND	.0	.0	.0	.0	. 0	. 0	. 0	. 0	.0	.0
GROUND	-5.1	-1.6	9.7	11.4	2.9	-3.1	-5.2	-1.6	-2.7	-2.8
TOTAL AWT -11.5	.9	13.3	-11.5	-20.8	-17.9	-21.4	-30.6	-56.0-	100.0-	100.0
SOURCE : 17 CFS - curing (int	enral)	- cor	nveyor	belt /	motor	2				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
BARRIER AIR ABSORPTION	5.0	5.1	5.1	2.1	5.3	10.8	18.6	36.4	97.5	300.0
TEMP & WIND	5.0 .0 .0 -5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-5.1	-1.6	9.8	11.5	3.0	-3.0	-5.2	-1.5	-2.8	-2.8
TOTAL AWT -11.5	. 9	13.3	-11.6	-20.9	-18.0	-21.5	-30.5	-56.1-	100.0-	100.0
SOURCE : 18 CFS - curing (int	enral)	- cor	nveyor	belt /	motor	. 3				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
BARRIER	5.0	5.0	5.1	5.1	5.2	5.4	5.8	6.6	7.9	10.0
AIR ABSORPTION TEMP & WIND	. 0	. 2	. 6	2.1	5.6	10.9	18.6	36.6	97.8	300.0
AIR ABSORPTION TEMP & WIND GROUND	-5.1	-1.6	9.7	11.3	2.8	-3.2	-5.1	-1.7	-2.5	-2.9
TOTAL AWT -11.5	.8	13.3	-11.5	-20.7	-17.8	-21.3	-30.5	-55.6-	100.0-	100.0
SOURCE : 19 CFS - curing (int	enral)	- cor	wever	helt /	motor	. Д				
ers curing (in	.cmai,			FR						
	31.5			250						16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
BARRIER AIR ABSORPTION	5.0 .0 .0 -5.1	5.0	5.1	5.1	5.2	5.3	5.7	6.3	7.4	9.2
TEMP & WIND	.0	. 2	. 0	.0	.0	.0	.0	36.8	98.4	.0
GROUND	-5.1	-1.7	9.6	11.3	2.8	-3.2	-5.1	-1.7	-2.5	-2.9
TOTAL AWT -11.5						01 0	-30 5	-55 5-	100 0-	100 0
1011111 1111 111.5	.8	13.3	-11.5	-20.7	-17.8	-21.3	30.3	55.5	100.0-	100.0
SOURCE : 20 CFS - curing (int							30.3	33.3	100.0	100.0
SOURCE : 20	enral)	- cor	ıveyor		motor	5				
SOURCE : 20	enral)	- cor	nveyor	belt /	motor EQUENC	5 Y Hz				
SOURCE : 20	31.5	- cor	nveyor	belt / FR 250	motor EQUENC 500	5 Y Hz_ 1k	2k	4k	8k	

DISTANCE	76 2	76.2	76 2	76 2	76.2	76 2	76 2	76 2	76.2	76 2
BARRIER	76.2 12.8	15.6	18.6	21.6	24.6	25.0	25.0	25.0	25.0	25.0
AIR ABSORPTION TEMP & WIND	.0	.2	.6	2.1	5.7	11.0	18.8	37.0	99.0	300.0
	.0	.0	.0	.0	.0	.0	. 0	.0	. 0	. 0
GROUND	-4.4	1	9.9	1.6	-4.3	-1./	-2.7	-3.2	-2.6	. 2
TOTAL AWT -24.1	-7.6	1.1	-25.3	-27.5	-30.2	-42.5	-52.4	-73.0-	-100.0-	-100.0
SOURCE : 21				11						
CFS - curing (in	tenral) – cor	iveyor	pelt /	motor	: b				
				FI	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	77 0	93 N	80 N	74 0	72 0	68 N	65 N	62 N	58.0	Ο
POWER LEVEL DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
BARKIEK ATR ARSORPTION	12.7	15.3	18.3	21.3 2.1	24.3 5.7	25.0 11 0	25.0 18 9	25.0 37.0	25.U 99.1	25.0 300 0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	-4.4	.0	9.7	1.3	-4.4	-1.4	-2.9	-3.3	-2.4	-4.1
TOTAL AWT -23.8	-7.6	1.3	-24.9	-27.1	-29.9	-42.9	-52.3	-73.0-	-100.0-	-100.0
SOURCE : 22										
CFS - processing	(exte	rnal) -	- RTT ı	manv						
				FI	KEQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	111.0	114.0	103.0	104.0	103.0	100.0	98.0	94.0	88.0	.0
DIRECTIVITY	. 0	.0	.0	. 0	. 0	. 0	.0	.0	. 0	. 0
DISTANCE	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
BARRIER	76.9 6.4	7.6	9.4	11.7	13.4	16.4	19.4	22.4	25.0	25.0
AIR ABSORPTION	.0	.2	.7	2.3	6.1	11.8	20.2	39.5	106.1	300.0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	. 0	.0
GROUND	-4.0	.8	5.8	-2.6	-2.5	-2.2	-2.5	-2.7	4	-2.1
TOTAL AWT 10.7	31.7	28.6	10.2	15.7	9.1	-2.9	-15.9	-42.0-	-100.0-	-100.0
SOURCE : 23		1\	D.M.M.							
CFS - processing	(exte	rnal) -	- RTT	revers	ıng					
					DECLERA	7V 11-				
				PT	くにひひにいく	.I DZ				
				FI						
	31.5	63		F					8k	16k
POWER LEVEL			125	250	500	1k	2k	4k		
POWER LEVEL DIRECTIVITY	57.0	75.0	125 75.0	250 79.0	500 89.0	1k 93.0	2k 91.0	4k 87.0	77.0	. 0
DIRECTIVITY	57.0 .0	75.0 .0	125 75.0 .0	250 79.0 .0	500 89.0 .0	1k 93.0 .0	2k 91.0 .0	4k 87.0 .0	77.0	.0
DIRECTIVITY	57.0 .0 76.1	75.0 .0 76.1	125 75.0 .0 76.1	250 79.0 .0 76.1	500 89.0 .0 76.1	1k 93.0 .0	2k 91.0 .0	4k 87.0 .0	77.0 .0 76.1	.0 .0 76.1
DIRECTIVITY	57.0 .0 76.1	75.0 .0 76.1	125 75.0 .0 76.1	250 79.0 .0 76.1	500 89.0 .0 76.1	1k 93.0 .0	2k 91.0 .0	4k 87.0 .0	77.0 .0 76.1	.0 .0 76.1
DIRECTIVITY	57.0 .0 76.1	75.0 .0 76.1	125 75.0 .0 76.1	250 79.0 .0 76.1	500 89.0 .0 76.1	1k 93.0 .0	2k 91.0 .0	4k 87.0 .0	77.0 .0 76.1	.0 .0 76.1
DIRECTIVITY	57.0 .0 76.1 .0 .0	75.0 .0 76.1 .0 .2	125 75.0 .0 76.1 .0 .6	250 79.0 .0 76.1	500 89.0 .0 76.1 .0 5.6 .0	1k 93.0 .0 76.1 .0 10.8 .0	2k 91.0 .0 76.1 .0 18.5	4k 87.0 .0 76.1 .0 36.3	77.0 .0 76.1 .0 97.2	.0 .0 76.1 .0 300.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	57.0 .0 76.1 .0 .0	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .0	250 79.0 .0 76.1 .0 2.1 .0 15.0	500 89.0 .0 76.1 .0 5.6 .0 15.0	1k 93.0 .0 76.1 .0 10.8 .0 15.0	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	57.0 .0 76.1 .0 .0	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .0	250 79.0 .0 76.1 .0 2.1 .0 15.0	500 89.0 .0 76.1 .0 5.6 .0 15.0	1k 93.0 .0 76.1 .0 10.8 .0 15.0	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6	57.0 .0 76.1 .0 .0 .5.6	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .0	250 79.0 .0 76.1 .0 2.1 .0 15.0	500 89.0 .0 76.1 .0 5.6 .0 15.0	1k 93.0 .0 76.1 .0 10.8 .0 15.0	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	57.0 .0 76.1 .0 .0 -5.6	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .0 6.7	250 79.0 .0 76.1 .0 2.1 .0 15.0	500 89.0 .0 76.1 .0 5.6 .0 15.0	1k 93.0 .0 76.1 .0 10.8 .0 15.0	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24	57.0 .0 76.1 .0 .0 -5.6	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .6 .7 -8.4	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24	57.0 .0 76.1 .0 .0 -5.6	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .6 .7 -8.4	250 79.0 .0 76.1 .0 2.1 .0 15.0	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24	57.0 .0 76.1 .0 .0 .0 -5.6	75.0 .0 76.1 .0 .2 .0 -3.1	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 REQUENCE	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing	57.0 .0 .0 .0 .0 .0 .0 -5.6 -13.5	75.0 .0 76.1 .0 .2 .0 -3.1 1.9	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Extor / REQUENCE 500	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan 2Y Hz	2k 91.0 .0 76.1 .0 18.5 .0 10.6	4k 87.0 .0 76.1 .0 36.3 .0 4.4	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 76.1 .0 300.0 .0 -5.2
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing	57.0 .0 76.1 .0 .0 .0 -5.6 -13.5 (exter	75.0 .0 76.1 .0 .2 .0 -3.1 1.9	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 etor / REQUENCE 500 108.0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 76.1 .0 300.0 .0 -5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing	57.0 .0 76.1 .0 .0 .0 -5.6 -13.5 (exter	75.0 .0 76.1 .0 .2 .0 -3.1 1.9	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 etor / REQUENCE 500 108.0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 76.1 .0 300.0 .0 -5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing	57.0 .0 76.1 .0 .0 .0 -5.6 -13.5 (exter	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 EXECUTENCY 500 108.0 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 76.1 .0 300.0 .0 -5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing	57.0 .0 76.1 .0 .0 .0 .0 -5.6 -13.5 (exter	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 REQUENCE 500 108.0 .0 76.3	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 76.1 .0 300.0 .0 -5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	57.0 .0 .0 .0 .0 .0 .0 .5.6 -13.5 (exter 	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 enal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect _FF 250 109.0 .0 76.3 21.6	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Ettor / REQUENCE 500 108.0 .0 76.3 24.6	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz .0 101.0 .0 76.3 25.0	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	57.0 .0 .0 .0 .0 .0 .0 -5.6 -13.5 (exter 31.5 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0 76.3 21.6 2.11 .0	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 ELLOY / SOU 76.3 24.6 5.7 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	57.0 .0 .0 .0 .0 .0 .0 -5.6 -13.5 (exter 31.5 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect _FF 250 109.0 .0 76.3 21.6	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 ELLOY / SOU 76.3 24.6 5.7 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE : 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	57.0 .0 .0 .0 .0 .0 .0 .0 .5.6 -13.5 (exter 	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 63 102.0 .0 76.3 15.6 .2 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0 76.3 21.6 2.1 .0 1.6	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 Etor / SETOR / 108.0 .0 76.3 24.6 5.7 .0 .4.3	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4	57.0 .0 .0 .0 .0 .0 .0 -5.6 -13.5 (exter 31.5 100.0 .0 .0 .0 .0 .0 .0 -13.5	75.0 .0 76.1 .0 .2 .0 -3.1 1.9 63 102.0 .0 76.3 15.6 .2 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0 76.3 21.6 2.1 .0 1.6	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 Etor / SETOR / 108.0 .0 76.3 24.6 5.7 .0 .4.3	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25	57.0 .0 .0 .0 .0 .0 .0 .0 -5.6 -13.5 (exter 31.5 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .2 .0 .3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .0 9.9 .7	250 79.0 .0 76.1 .0 2.1 .0 15.0 15.0 16.1 250 109.0 .0 76.3 21.6 2.1 .0 1.6 7.4	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 Etor / SETOR / 108.0 .0 76.3 24.6 5.7 .0 .4.3	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4	57.0 .0 .0 .0 .0 .0 .0 .0 -5.6 -13.5 (exter 31.5 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .2 .0 .3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .0 9.9 .7	250 79.0 .0 76.1 .0 2.1 .0 15.0 15.0 16.1 250 109.0 .0 76.3 21.6 2.1 .0 1.6 7.4	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 Etor / SETOR / 108.0 .0 76.3 24.6 5.7 .0 .4.3	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25	57.0 .0 .0 .0 .0 .0 .0 .0 -5.6 -13.5 (exter 31.5 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .2 .0 .3.1 1.9 cnal) -	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9	250 79.0 .0 76.1 .0 2.1 .0 15.0 15.0 16.1 250 109.0 .0 76.3 21.6 2.1 .0 1.6 7.4	500 89.0 76.1 .0 5.6 .0 15.0 -7.6 ettor / REQUENC 500 108.0 .0 76.3 24.6 5.7 .0 -4.3	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2	77.0 .0 76.1 .0 97.2 .0 -1.3 -95.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25	57.0 .0 .0 .0 .0 .0 .0 .0 .5.6 -13.5 (externos) 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .0 .0 .2 .0 .0 .3.1 .9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collectFF 250 109.0 .0 76.3 21.6 2.1 .0 1.6 7.4 liftFF	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Stor / REQUENC 500 108.0 .0 76.3 24.6 5.7 .0 -4.3 5.7	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25	57.0 .0 .0 .0 .0 .0 .0 .0 .5.6 -13.5 (externos) 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .0 .0 .2 .0 .0 .3.1 .9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0 76.3 21.6 2.1 .0 1.6	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Stor / REQUENC 500 108.0 .0 76.3 24.6 5.7 .0 -4.3 5.7	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25 CFS - processing	57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .2 .0 .3.1 .9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0 76.3 21.6 2.1 .0 1.6 7.4 lift FF	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 REQUENC 500 76.3 24.6 5.7 .0 -4.3 5.7	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8 -9.5	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .2.7 -23.4	4k 87.0 .0 76.1 .0 36.3 .4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25	57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .2 .0 .3.1 .9 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 -dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 -fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collect FF 250 109.0 .0 76.3 21.6 2.1 .0 1.6 7.4 lift FF	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 ELOY / REQUENC 500 108.0 .0 76.3 24.6 5.7 .0 -4.3 5.7	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8 -9.5	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7 -23.4	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 .0 -2.6 -100.0-	.0 .0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25 CFS - processing	57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .2 .0 .3.1 .9 cnal)0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collece	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Ettor / REQUENC 500 76.3 24.6 5.7 .0 -4.3 5.7 REQUENC 500 93.0 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8 -9.5	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7 -23.4	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 -2.6 -100.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25 CFS - processing	57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .2 .0 .3.1 .9 cnal)0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collece	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Ettor / REQUENC 500 76.3 24.6 5.7 .0 -4.3 5.7 REQUENC 500 93.0 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8 -9.5	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7 -23.4	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 -2.6 -100.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25 CFS - processing	57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .2 .0 .3.1 .9 cnal)0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collece	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Ettor / REQUENC 500 76.3 24.6 5.7 .0 -4.3 5.7 REQUENC 500 93.0 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8 -9.5	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7 -23.4	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 -2.6 -100.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -5.6 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 4.4 SOURCE: 25 CFS - processing	57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	75.0 .0 .0 .0 .0 .2 .0 .3.1 .9 cnal)0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 75.0 .0 76.1 .0 .6 .0 6.7 -8.4 - dust 125 106.0 .0 76.3 18.6 .6 .0 9.9 .7 - fork	250 79.0 .0 76.1 .0 2.1 .0 15.0 -14.2 collece	500 89.0 .0 76.1 .0 5.6 .0 15.0 -7.6 Ettor / REQUENC 500 76.3 24.6 5.7 .0 -4.3 5.7 REQUENC 500 93.0 .0	1k 93.0 .0 76.1 .0 10.8 .0 15.0 -8.9 fan CY Hz 1k 101.0 .0 76.3 25.0 11.0 .0 -1.8 -9.5	2k 91.0 .0 76.1 .0 18.5 .0 10.6 -14.2 2k 94.0 .0 76.3 25.0 18.9 .0 -2.7 -23.4	4k 87.0 .0 76.1 .0 36.3 .0 4.4 -29.8 4k 89.0 .0 76.3 25.0 37.1 .0 -3.2 -46.1	77.0 .0 .0 .0 .0 .0 -1.3 -95.0- 8k 83.0 .0 .0 -2.6 -100.0-	.0 .0 .0 .0 .0 .0 .0 .5.2 -100.0

TEMP & WIND .0 .0 -5.6 -3.1 .0 .0 .0 .0 .0 .0 6.7 15.0 15.0 15.0 10.5 .0 .0 .0 4.3 -1.4 -5.3 GROUND TOTAL AWT 4.6 30.5 26.9 15.5 3 8 -3 7 -9 0 -14 2 -28 9 -89 4-100 0 26 CFS - processing (external) - aggregate unload ___FREQUENCY Hz_ 31.5 63 125 250 500 16k 1k 2k 4k 8k POWER LEVEL 110.0 111.0 102.0 100.0 101.0 104.0 101.0 97.0 105.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 . 0 . 0 . 0 . 0 76.2 DISTANCE 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 .0 .0 . 0 . 6 . 0 .0 BARRIER .0 .0 2.1 AIR ABSORPTION 5.6 10.9 18.7 36.8 98.3 300.0 TEMP & WIND Ω Ω Ω Ω Ω Ω GROUND 6.8 15.0 15.0 15.0 10.6 -1.3 -5.2 -5.6 -3.1 4.4 TOTAL AWT 13.2 39.4 37.8 18.4 6.7 4.2 1.9 -4.5 -20.3 -68.3-100.0 SOURCE : 27 CFS - processing (external) - silo vent 1 __FREQUENCY Hz_ 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 84.0 82.0 86.0 89.0 88.0 81.0 74.0 69.0 63.0 .0 DIRECTIVITY .0 . 0 .0 .0 .0 .0 .0 .0 . 0 76.2 DISTANCE 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 BARRIER 5.0 5.0 5.0 5.0 5.0 5.1 5.1 5.1 5.3 5.5 AIR ABSORPTION . 0 . 6 2.1 5.7 11.0 18.9 37.0 99.1 300.0 .0 TEMP & WIND Ω . 0 . 0 . 0 6.3 -2.3 -3.2 -2.2 -2.5 -2.7 -1.1 -2.3 GROUND -4.0 . 8 -.3 4.2 -9.1 -23.6 -46.7-100.0-100.0 6.7 -2.2 7 9 TOTAL AWT 3.5 CFS - processing (external) - silo vent 2 __FREQUENCY Hz_ 31.5 16k 63 125 250 500 1k 2k 4k 8k POWER LEVEL 84.0 82.0 86.0 89.0 88.0 81.0 74.0 69.0 63.0 .0 .0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 . 0 DISTANCE 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 76.2 . 0 .0 BARRIER .0 . 0 .0 .0 AIR ABSORPTION 2.1 5.7 11.0 18.8 36.9 98.9 300.0 . 0 .6 TEMP & WIND . 0 . 0 . 0 9.1 11.7 3.0 -3.1 -5.0 -1 3 -1 8 -2 3 GROUND -4 9 -3 0 TOTAL AWT 2.1 12.6 6.9 .0 -1.0 3.1 -3.1 -16.0 -42.4-100.0-100.0 TOTAL AWT 17.3 40.7 39.0 22.5 19.0 13.5 7.4 -.3 -16.8 -67.7 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE FILENAMES C:\ENM\SOURCES\2118506A\506A-3 2118506A GEN C:\ENM\MAPS\2118506A\506A OUT1 file and RNK1 file TEMP (deg C) HUMIDITY (%) 50.0 25.0 WIND SPEED (m/sec) WIND DIR (deg) .0 .0 TEMP GRAD (deg C/100m) .0 X= 3985.000 Y= 2886.000 Z= 22.200 SOURCE : 13 CFS - processing (external) - backhoe _FREQUENCY Hz_

31.5 63

. 0

95.0 95.0

. 0

POWER LEVEL

DIRECTIVITY

125 250

. 0

.0

500

. 0

1k

. 0

95.0 95.0 95.0 95.0 95.0 95.0

2k

. 0

4k

.0

8k

95.0

. 0

16k

Ω

. 0

	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
BARRIER AIR ABSORPTION TEMP & WIND	.0	.0	.6	.0 2.1 .0	5.7	11.0	18.8	36.9	98.7	300.0
GROUND	-5.6	-3.1	6.9	15.0	15.0	14.9	10.0	3.8	-1.8	-5.4
TOTAL AWT 1.9	24.3	21.7	11.3	1.7	-1.9	-7.1	-10.0	-21.9	-78.1	-100.0
SOURCE : 14 CFS - processing		nal) -		FF	PEOLIENI	av II-				
	31 5	63		FF				4 k-	8 k-	16k
POWER LEVEL										
DIRECTIVITY	. 0	.0	. 0	.0	.0	.0	. 0	.0	. 0	. 0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	76.2 .0	76.2 .0	76.2 .0	76.2 .0	76.2 .0	76.2 .0	76.2 .0	76.2 .0	76.2 .0	76.2 .0
AIR ABSORPTION TEMP & WIND	.0	.2	.6 .0	2.1	5.7	11.0	18.8	36.9 .0	98.9	300.0
GROUND	-5.6	-3.1	6.9	15.0	15.0	14.9	10.0	3.8	-1.8	-5.4
TOTAL AWT 8.0	23.3	26.7	16.2	12.6	1.1	-1.1	-7.0	-24.9	-87.3-	-100.0
SOURCE : 15 CFS - curing (int	enral)	- FEI	ь							
				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
DIRECTIVITY	.0	.0	.0		.0	.0	.0	.0	.0	.0
BARRIER	5 ()	76.3 5.1	5.1	76.3 5.1	5.3	5.5	6.0	6.9	8.4	10.6
AIR ABSORPTION TEMP & WIND	.0	.2	.6 .0	2.1	5.7	11.1	19.0 .0	37.2	99.6	300.0
GROUND	-5.0	-1.6	10.0	11.3	2.8	-3.1	-5.2	-1.7	-2.6	-2.8
TOTAL AWT 3.1	7.7	10.0	-2.0	1.1	-2.1	1.2	-8.1	-36.7-	-100.0-	-100.0
SOURCE : 16 CFS - curing (int	enral)	- cor	nveyor	belt /	/ moto	r 1				
				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	. 0	.0	. 0	. 0	.0	. 0	. 0	.0	. 0	. 0
DISTANCE BARRIER	76.3 5.0	76.3 5.1	76.3 5.1	76.3 5.1	76.3 5.3	76.3 5.5	76.3 6.0	76.3 6.9	76.3 8.4	76.3 10.6
AIR ABSORPTION	.0	.2	. 6	2.2	5.7	11.1	19.1	37.4	100.1	300.0
GROUND	-5.0	-1.6	10.0	11.4	2.8	-3.1	-5.2	-1.6	-2.6	-2.8
TOTAL AWT -11.9	. 6	13.0	-12.0	-21.0	-18.2	-21.9	-31.2	-57.0-	-100.0-	-100.0
SOURCE : 17 CFS - curing (int	enral)		_	belt /						
	31 5			FF					8k	16k
POWER LEVEL	77 N			74.0						
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
DISTANCE BARRIER				76.4 5.1			76.4 6.0			
AIR ABSORPTION TEMP & WIND	.0			2.2						
GROUND	-5.0	-1.5	10.0	11.4	2.9	-3.1	-5.2	-1.6	-2.7	-2.8
TOTAL AWT -11.9	.6	12.9	-12.1	-21.1	-18.3	-22.0	-31.3	-57.2	-100.0-	-100.0
SOURCE : 18 CFS - curing (int	enral)	- cor	nveyor	belt /	/ moto	r 3				
						~~ **				
				FF	KEÕOEM	YY HZ_				
	31.5	63		FF					8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	125 80.0	250	500 72.0	1k 68.0	2k 65.0	4k 62.0	58.0	. 0

AIR ABSORPTION TEMP & WIND GROUND	.0 .0 -5.0	.2 .0 -1.5	.6 .0 10.0	2.2 .0 11.3	5.8 .0 2.8	11.3 .0 -3.1	19.3 .0 -5.2	37.8 .0 -1.7	101.2 .0 -2.6	300.0
TOTAL AWT -12.0	.5	12.9	-12.2	-21.1	-18.3	-22.0	-31.4	-57.1	-100.0	-100.0
SOURCE : 19										
CFS - curing (int	cenral)	- cor	nveyor	belt /	/ motor	4				
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DISTANCE	76.5 11.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
BARRIER AIR ARSORPTION	11.3	12.9	15.8	18.8	21.9	24.9	25.0	25.0	25.0	25.0
AIR ABSORPTION TEMP & WIND GROUND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-4.3	. 3	8.8	.0	-4.6	3	-3.4	-2.3	-2.8	-3.4
TOTAL AWT -21.8	-6.6	3.1	-21.8	-23.5	-27.6	-44.4	-52.5	-75.1	-100.0	-100.0
SOURCE : 20 CFS - curing (int	- 02201	901		hol+	/ mata	. E				
CFS - Curing (in	Jenrai)	- 601								
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0
DIRECTIVITY	. 0	.0	. 0	.0	.0	.0	.0	.0	. 0	.0
DISTANCE	76.5 12.7	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	15.4	18.4	21.4	5.8	11.3	19.3	37.8	101.5	300.0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL AWT -24.2	-7.8	.9	-25.4	-27.5	-30.4	-43.1	-53.0	-74.0	-100.0	-100.0
SOURCE : 21 CFS - curing (int	enral)	- cor	nveyor	belt /	/ motor	c 6				
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	77.0									
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
BARRIER AIR ABSORPTION	12.6	15.2	18.1	21.2	24.2	25.0 11.2	25.0 19.2	25.0 37.6	25.0	25.0 300 0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -23.9	-4.4	.0	9.7	1.2	-4.4	-1.1	-2.9	-3.3	-2.6	-4.4
TOTAL AWT -23.9	-7.7	1.2	-24.9	-26.9	-29.9	-43.5	-52.6	-73.7	-100.0	-100.0
SOURCE : 22	, .									
CFS - processing	(exter	nal) -	- RTT 1	manv						
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	111.0	114.0	103.0	104.0	103.0	100.0	98.0	94.0	88.0	.0
DISTANCE	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
BARRIER	. 0	.0	.0	.0	. 0	.0	.0	.0	.0	.0
BARRIER AIR ABSORPTION TEMP & WIND	.0	. 2	. 0	2.3	.0	.0	.0	39.6	.0	.0
GROUND	-5.6	-2.9	7.5	15.0	15.0	15.0	10.6	4.4	-1.3	-5.2
TOTAL AWT 14.6	39.6	39.8	17.9	9.8	5.0	-3.7	-9.7	-26.8	-94.0	-100.0
SOURCE : 23 CFS - processing	(exter	nal) -	- RTT :	reversi	ing					
				FF	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	57.0	75.0	75.0		89.0	93.0	91.0	87.0	77.0	.0
DISTANCE BARRIER	.0.1	.0.1	.0.1	.0	.0.1	.0.1	.0.1	.0	.0	.0
AIR ABSORPTION	. 0	. 2	.6	2.1	5.6	10.9	18.6	36.6	97.9	300.0
BARRIER AIR ABSORPTION TEMP & WIND GROUND	-5.6	-3.1	6.8	15.0	15.0	14.8	9.6	3.4	-2.1	-5.5

TOTAL AWT -5.5 -13.6 1.8 -8.6 -14.2 -7.8 -8.9 -13.4 -29.2 -95.0-100.0

SOURCE : 24 CFS - processing (external) - dust collector / fan

	FREQUENCY Hz									
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	100.0	102.0	106.0	109.0	108.0	101.0	94.0	89.0	83.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.3 12.7 .0 .0 -4.4	76.3 15.5 .2 .0	76.3 18.4 .6 .0 9.8	76.3 21.5 2.1 .0 1.4	76.3 24.5 5.7 .0 -4.3	76.3 25.0 11.1 .0 -1.5	76.3 25.0 19.0 .0 -2.8	76.3 25.0 37.3 .0 -3.3	76.3 25.0 99.9 .0 -2.4	76.3 25.0 300.0 .0 -2.6
TOTAL AWT 4.5	15.3	10.0	.8	7.7	5.8	-9.9	-23.6	-46.3-	100.0	-100.0

SOURCE : 25 CFS - processing (external) - forklift

		FREQUENCY Hz									
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	101.0	100.0	99.0	97.0	93.0	93.0	91.0 .0	88.0	83.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.2 .0 .0 .0	76.2 .0 .2 .0 -3.1	76.2 .0 .6 .0	76.2 .0 2.1 .0 15.0	76.2 .0 5.7 .0 15.0	76.2 .0 11.0 .0 14.9	76.2 .0 18.8 .0 9.9	76.2 .0 36.9 .0 3.7	76.2 .0 98.9 .0 -1.9	76.2 .0 300.0 .0 -5.4	
TOTAL AWT 4.4	30.3	26.7	15.2	3.6	-3.9	-9.1	-13.9	-28.8	-90.2	-100.0	

SOURCE : 26 CFS - processing (external) - aggregate unload

		FREQUENCY Hz								
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	110.0	111.0	102.0	100.0	101.0	104.0	101.0	97.0 .0	105.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.2 .0 .0 .0	.0	76.2 .0 .6 .0	.0 2.1 .0	76.2 .0 5.7 .0 15.0	76.2 .0 11.0 .0 14.9	76.2 .0 18.8 .0 10.0	76.2 .0 36.9 .0 3.8	76.2 .0 98.9 .0 -1.8	76.2 .0 300.0 .0 -5.4
TOTAL AWT 13.1	39.3	37.7	18.2	6.6	4.1	1.9	-4.0	-19.9	-68.3	-100.0

SOURCE : 27 CFS - processing (external) - silo vent 1

		FREQUENCY Hz								
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	82.0	86.0	89.0	88.0	81.0	74.0	69.0	63.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.3 .0 .0 .0	76.3 .0 .2 .0 -1.2	76.3 .0 .6 .0 9.1	76.3 .0 2.1 .0 11.6	76.3 .0 5.7 .0 2.9	76.3 .0 11.1 .0 -3.2	76.3 .0 19.0 .0 -5.0	76.3 .0 37.2 .0 -1.9	76.3 .0 99.6 .0 -2.2	76.3 .0 300.0 .0 -3.1
TOTAL AWT 2.1	12.5	6.8	. 0	-1.0	3.1	-3.2	-16.3	-42.5-	100.0-	-100.0

SOURCE : 28 CFS - processing (external) - silo vent 2

			_FREQUENCY Hz								
		31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY		84.0	82.0	86.0	89.0	88.0	81.0	74.0 .0	69.0	63.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	ON	76.3 .0 .0 .0	76.3 .0 .2 .0 -1.2	76.3 .0 .6 .0 9.1	76.3 .0 2.1 .0 11.6	76.3 .0 5.7 .0 2.9	76.3 .0 11.1 .0 -3.2	76.3 .0 18.9 .0 -5.0	76.3 .0 37.1 .0 -1.9	76.3 .0 99.4 .0 -2.2	76.3 .0 300.0 .0 -3.1
TOTAL AWT	2.2	12.5	6.8	. 0	-1.0	3.1	-3.1	-16.2	-42.4-	100.0	-100.0

```
TOTAL AWT 18.4 42.9 42.2 23.4 16.5 12.2 7.5 .4 -16.1 -67.8 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE
FILENAMES
C:\ENM\SOURCES\2118506A\506A-3
2118506A.GEN
C:\ENM\MAPS\2118506A\506A
OUT1 file and RNK1 file
TEMP (deg C)
              HUMIDITY (%)
WIND SPEED (m/sec) WIND DIR (deg)
TEMP GRAD (deg C/100m)
X= 3971.000 Y= 3280.000 Z= 22.200
SOURCE : 13
CFS - processing (external) - backhoe
                                ___FREQUENCY Hz___
               31.5 63 125 250 500 1k 2k 4k 8k 16k
                                                                .0
POWER LEVEL
               95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0
DIRECTIVITY
                .0
                     .0
                           .0
                                .0
                                     .0
                                          .0
DISTANCE
                .0
                     .0
                          .0
                                .0
                                     .0 .0 .0 .0 .0 .0
6.0 11.6 19.8 38.8 104.2 300.0
BARRIER
AIR ABSORPTION
TEMP & WIND
                 . 0
                                      .0
                          7.4 15.0 15.0 15.0 10.5
                                                     4.3 -1.4 -5.3
GROUND
                -5.6 -2.9
          1.0 23.8 21.0 10.2
                               1.0 -2.7 -8.3 -12.0 -24.8 -84.5-100.0
SOURCE : 14
CFS - processing (external) - FEL
```

			FR	EQUENC	CY Hz				
	31.5	63 125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	94.0 10 .0	0.0 100.0	106.0	98.0	101.0	98.0	92.0	86.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0	6.7 76.7 .0 .0 .2 .7 .0 .0 2.9 7.4	.0 2.2 .0	.0 6.0 .0	76.7 .0 11.6 .0 15.0	76.7 .0 19.9 .0 10.3	.0	76.7 .0 104.4 .0 -1.5	.0
TOTAL AWT 7.2 SOURCE : 15	22.8 2	6.0 15.2	12.0	.3	-2.3	-8.9	-27.7	-93.6-	-100.0

DOULCE		13		
CFS -	curing	(intenral)	-	FEL

		FREQUENCY Hz								
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	90.0	90.0	96.0	88.0	91.0	88.0	82.0	76.0 .0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	76.8 5.0 .0 .0	76.8 5.0 .2 .0 -1.4	76.8 5.1 .7 .0 10.5	76.8 5.1 2.3 .0 11.7	76.8 5.3 6.1 .0 3.2	76.8 5.5 11.8 .0 -2.8	76.8 5.9 20.1 .0 -5.3	76.8 6.7 39.3 .0 -1.2	76.8 8.2 105.6 .0 -3.2	76.8 10.3 300.0 .0 -2.8
TOTAL AWT 1.7	7.1	9.3	-3.1	.1	-3.4	2	-9.5	-39.7	-100.0-	-100.0

SOURCE: 16
CFS - curing (internal) - conveyor belt / motor 1

		FREQUENCY Hz									
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	76.9 5.0 .0	76.9 5.0 .2 .0	76.9 5.1 .7	76.9 5.1 2.3 .0	76.9 5.3 6.1 .0	76.9 5.5 11.8 .0	76.9 5.9 20.2 .0	6.7	76.9 8.2 106.3 .0	10.3	

```
-5.0 -1.4 10.5 11.7 3.2 -2.9 -5.3 -1.2 -3.2 -2.8
GROUND
TOTAL AWT -12.7 .0 12.3 -13.1 -22.0 -19.4 -23.3 -32.7 -60.0-100.0-100.0
SOURCE : 17
CFS - curing (intenral) - conveyor belt / motor 2
                               FREOUENCY Hz
               31.5 63 125 250 500
                                            2k
                                                 4k
                                                      8k 16k
                                       1k
                                                            .0
POWER LEVEL
               77.0 93.0 80.0 74.0 72.0 68.0 65.0 62.0 58.0
                .0
                                    .0
                                                   .0
DIRECTIVITY
                     .0
                         .0
                              .0
                                        .0
                                             .0
```

5.0 5.1 5.1 .7 2.3 .0 .0 .0 . 0 -5.0 -1.4 10.5 11.7 3.2 -2.8 -5.3 -1.1 -3.2 -2.8 GROUND TOTAL AWT -12.8 .0 12.2 -13.2 -22.1 -19.6 -23.5 -32.9 -60.3-100.0-100.0

6.1 11.9

5.5

5.9

20.3

6.7

8.1

39.8 106.9 300.0

10 3

5.2

SOURCE : 18 CFS - curing (intenral) - conveyor belt / motor 3

5.0

DISTANCE

BARRIER

AIR ABSORPTION

FREOUENCY Hz 31.5 63 125 250 500 8k 16k 2k 1k 4k .0 POWER LEVEL 77.0 93.0 80.0 74.0 72.0 68.0 65.0 62.0 58.0 .0 .0 .0 .0 .0 .0 .0 DIRECTIVITY DISTANCE 77.0 77.0 77.0 77.0 77.0 77.0 5.0 5.1 5.1 .7 2.3 .0 .0 5.2 6.2 BARRIER 5.0 5.₊ .7 .0 5.4 5.7 6.4 9.5 40.0 107.7 300.0 AIR ABSORPTION .0 12.0 20.5 . 0 TEMP & WIND -5.0 -1.4 10.5 11.7 3.2 -2.8 -5.3 -1.2 -3.2 -2.8GROUND -.1 12.2 -13.2 -22.1 -19.6 -23.5 -32.9 -60.3-100.0-100.0

SOURCE : 19 CFS - curing (intenral) - conveyor belt / motor 4

FREOUENCY Hz 8k 16k 31.5 63 125 250 500 2k 1k 4k .0 POWER LEVEL 77.0 93.0 80.0 74.0 72.0 68.0 65.0 62.0 58.0 .0 .0 .0 DIRECTIVITY .0 .0 .0 .0 .0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 17.1 20.2 23.2 25.0 .7 2.3 6.2 12.0 .0 .0 .0 25.0 BARRIER 12.2 14.2 25.0 25.0 40.2 108.1 300.0 AIR ABSORPTION 20.6 .0 .2 TEMP & WIND .4 9.8 1.0 -4.5 -1.1 -3.0 -3.3 -2.7 -4.1 GROUND -4.3 TOTAL AWT -23.8 -8.0 1.2 -24.7 -26.6 -30.0 -45.0 -54.6 -76.9-100.0-100.0

SOURCE : 2.0 CFS - curing (intenral) - conveyor belt / motor 5

FRECIIENCY Hz 31.5 63 125 250 500 2k 8k 16k 1k 4k POWER LEVEL 77.0 93.0 80.0 74.0 72.0 68.0 65.0 62.0 58.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 77.0 15.2 24.2 BARRIER 12.6 18.1 21.2 25.0 25.0 25.0 25.0 ATR ABSORPTION .2 .7 2.3 6.2 12.0 .0 .0 .0 .0 .0 20.5 40.0 107.5 300.0 TEMP & WIND . 0 . 0 .2 10.2 1.6 -4.3 -2.0 -2.7 -3.1 -3.0 -2.8 GROUND -4.4 .4 -26.0 -28.1 -31.1 -44.0 -54.8 -76.9-100.0-100.0 TOTAL AWT -24.7 -8.3

SOURCE : 21 CFS - curing (intenral) - conveyor belt / motor 6

___FREQUENCY Hz_ 8k 16k 31.5 63 125 250 500 1k 2k POWER LEVEL 77.0 93.0 80.0 74.0 72.0 68.0 65.0 62.0 58.0 DIRECTIVITY .0 DISTANCE 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9 12.5 14.9 17.9 20.9 23.9 25.0 BARRIER . 7 AIR ABSORPTION .0 . 2 2.3 6.1 11.9 20.2 39.6 106.4 300.0 TEMP & WIND .0 . 0 . 0 . 0 . 0 . 0 . 0 -4.4 9.9 1.3 -4.4 -1.5 -2.8 -3.3 -2.4 -3.1 GROUND .8 -25.4 -27.4 -30.5 -44.3 -54.3 -76.1-100.0-100.0 TOTAL AWT -24.3 -8.1

31.5 63 125 250 500 1k 2k 4k 8k 160 POWER LEVEL DIRECTIVITY
DIRECTIVITY
PROPRIET STANCE 10
AIR ABSORPTION
FROUND
TOTAL AWT 14.1 39.2 39.3 17.0 9.3 4.3 -4.7 -11.3 -29.2 -99.4-100 SOURCE : 23 CFS - processing (external) - RTT reversing FREQUENCY Hz 31.5 63 125 250 500 1k 2k 4k 8k 160 COWER LEVEL 57.0 75.0 75.0 79.0 89.0 93.0 91.0 87.0 77.0 000 DIRECTIVITY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SOURCE : 23 OFS - processing (external) - RTT reversing FREQUENCY Hz 31.5 63 125 250 500 1k 2k 4k 8k 16 OURECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 OISTANCE 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.
PREQUENCY Hz 31.5 63 125 250 500 1k 2k 4k 8k 165 POWER LEVEL 57.0 75.0 75.0 79.0 89.0 93.0 91.0 87.0 77.0 000000000000000000000000000
31.5 63 125 250 500 1k 2k 4k 8k 16. POWER LEVEL 57.0 75.0 75.0 79.0 89.0 93.0 91.0 87.0 77.0 OUR CITY .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
POWER LEVEL 57.0 75.0 75.0 79.0 89.0 93.0 91.0 87.0 77.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DISTANCE 76.6 76.6 76.6 76.6 76.6 76.6 76.6 76.
O. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
O. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
O. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
FROUND -5.6 -2.9 7.3 15.0 15.0 14.9 10.2 4.0 -1.6 -5
TOTAL AWT -6.7 -14.1 1.1 -9.6 -14.9 -8.6 -10.1 -15.6 -32.2-100.0-100
SOURCE : 24 CFS - processing (external) - dust collector / fan
FREQUENCY Hz
31.5 63 125 250 500 1k 2k 4k 8k 16
POWER LEVEL 100.0 102.0 106.0 109.0 108.0 101.0 94.0 89.0 83.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DISTANCE 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8
BARRIER 12.7 15.2 18.2 21.2 24.2 25.0 25.0 25.0 25.0 25 AIR ABSORPTION .0 .2 .7 2.3 6.0 11.7 20.0 39.2 105.3 300
TEMP & WIND .0 .0 .0 .0 .0 .0 .0
TOTAL AWT 3.9 14.9 9.6 .2 7.2 5.2 -10.7 -25.1 -48.8-100.0-100
SOURCE : 25 IFS - processing (external) - forklift
FREQUENCY Hz
31.5 63 125 250 500 1k 2k 4k 8k 16
POWER LEVEL 101.0 100.0 99.0 97.0 93.0 93.0 91.0 88.0 83.0 DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0
DISTANCE 76.7 76.7 76.7 76.7 76.7 76.7 76.7 76.
AIR ABSORPTION .0 .2 .7 2.3 6.0 11.6 19.9 38.9 104.6 300 CEMP & WIND .0 .0 .0 .0 .0 .0 .0 .0 .0
FROUND -5.6 -2.9 7.4 15.0 15.0 14.9 10.2 4.0 -1.6 -5
TOTAL AWT 3.6 29.8 26.0 14.2 3.0 -4.8 -10.3 -15.9 -31.7 -96.7-100
SOURCE : 26
CFS - processing (external) - aggregate unload FREQUENCY Hz
31.5 63 125 250 500 1k 2k 4k 8k 16
POWER LEVEL 110.0 111.0 102.0 100.0 101.0 104.0 101.0 97.0 105.0
DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DISTANCE 76.7 76.7 76.7 76.7 76.7 76.7 76.7 76.
DIRECTIVITY .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DISTANCE 76.7 76.7 76.7 76.7 76.7 76.7 76.7 76.

FREQUENCY Hz 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 84.0 82.0 86.0 89.0 88.0 81.0 74.0 69.0 .0 .0 DIRECTIVITY . 0 .0 .0 .0 .0 .0 . 0 DISTANCE 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 .0 BARRIER .0 .0 . 0 . 7 .0 Ω .0 11.7 . 0 Ω AIR ABSORPTION . 0 6.0 20.0 39.1 104.9 300.0 . 2 .0 .0 . 0 . 0 . 0 GROUND -4.8 -1.1 9.6 11.9 3.2 -3.0 -5.1 -1.5 -2.7 -2.8 1.0 12.0 6.1 -1.0 -1.9 2.0 -4.5 -17.6 -45.3-100.0-100.0 SOURCE : 28 CFS - processing (external) - silo vent 2 FREOUENCY Hz 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 84.0 82.0 89.0 81.0 74.0 86.0 88.0 .0 .0 .0 .0 DIRECTIVITY .0 .0 . 0 .0 . 0 76.8 DISTANCE 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8 .0 .0 .0 11.7 BARRIER .0 .0 .0 . 0 Ω 2.3 AIR ABSORPTION 6.0 19.9 39.0 104.7 300.0 .0 . 2 . 7 TEMP & WIND .0 GROUND -4.8 -1.1 9.6 11.8 3.2 -3.0 -5.1 -1.6 -2.6 -2.8 6.1 1.0 12.0 -1.0 -1.9 2.0 -4.4 -17.6 -45.2-100.0-100.0 TOTAL AWT 17.7 42.4 41.6 22.5 15.9 11.4 6.3 -1.3 -18.7 -73.7 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE FILENAMES C:\ENM\SOURCES\2118506A\506A-3 2118506A GEN C:\ENM\MAPS\2118506A\506A OUT1 file and RNK1 file TEMP (deg C) HUMIDITY (%) 25.0 50.0 WIND SPEED (m/sec) WIND DIR (deg) .0 TEMP GRAD (deg C/100m) .0 X= 4129.000 Y= 3329.000 Z= SOURCE : 13 CFS - processing (external) - backhoe __FREQUENCY Hz_ 31 5 63 125 250 500 1k 2k4k 8k 16k POWER LEVEL 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 . 0 .0 .0 .0 .0 DIRECTIVITY . 0 .0 .0 .0 . 0 DISTANCE 77.4 77.4 77.4 77.4 77.4 77.4 77.4 77.4 77.4 77.4 .0 BARRIER .0 .0 .0 2.4 0 Ω .0 21.4 6.5 12.6 41.8 112.7 300.0 AIR ABSORPTION . 0 TEMP & WIND . 0 . 0 . 0 GROUND -4.9 -1.1 10.4 13.6 5.4 -1.3 -5.2 -1.3 -3.1 -3.5 TOTAL AWT 9.2 22.4 18.5 6.4 1.5 5.7 6.3 1.4 -22.9 -91.9-100.0 SOURCE : 14 CFS - processing (external) - FEL _FREQUENCY Hz_ 31.5 63 125 250 500 1k 2k 4k 8k 16k POWER LEVEL 94.0 100.0 100.0 106.0 98.0 101.0 98.0 92.0 86.0 . 0 .0 .0 .0 DIRECTIVITY .0 .0 .0 .0 .0 . 0 77.4 77.4 DISTANCE 77.4 77.4 77.4 77.4 77.4 77.4 77.4 77.4 . 0 .0 . 0 .0 .02.4 .0 . 0 BARRIER Ω AIR ABSORPTION 12.6 21.5 41.8 112.9 300.0 . 0 . 2 6.5

-1.3

-3.1 -3.5

-5.2

5.4 -1.3

TEMP & WIND

-4.9

-1.1 10.4 13.6

GROUND

TOTAL AWT 14.4 21.4 23.4 11.4 12.5 8.7 12.2 4.3 -26.0-100.0-100.0

SOURCE : 15 CFS - curing (intenral) - FEL

	FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	84.0	90.0	90.0	96.0	88.0	91.0 .0	88.0	82.0	76.0 .0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.5 5.0 .0 .0 -4.4	77.5 5.0 .2 .0	77.5 5.1 .7 .0 10.9	77.5 5.1 2.5 .0 2.4	77.5 5.2 6.6 .0 -3.9	77.5 5.3 12.7 .0 -3.2	77.5 5.5 21.7 .0 -2.6	.0	77.5 7.0 114.1 .0 -2.9	77.5 8.5 300.0 .0 -4.1	
TOTAL AWT 4.3	5.8	7.0	-4.2	8.5	2.7	-1.3	-14.1	-41.2-	-100.0-	-100.0	

SOURCE : 16 CFS - curing (intenral) - conveyor belt / motor 1

	FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.6 5.0 .0 .0 -4.4	77.6 5.0 .2 .0	77.6 5.1 .7 .0 10.9	77.6 5.1 2.5 .0 2.5	77.6 5.1 6.6 .0 -3.9	77.6 5.3 12.8 .0 -3.3	77.6 5.5 21.8 .0 -2.7	77.6 6.0 42.5 .0 -2.6	77.6 6.8 114.7 .0 -2.9	8.3 300.0 .0	
MOMAI AWM 10 F	1 2	0 0	1/1 2	12 6	12 5	24.2	27 2	C1 1	100 0	100 0	

TOTAL AWT -12.5 -1.3 9.9 -14.3 -13.6 -13.5 -24.3 -37.2 -61.4-100.0-100.0

SOURCE : 17 CFS - curing (intenral) - conveyor belt / motor 2

	FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.6 5.0 .0 .0 -4.4	77.6 5.0 .2 .0	77.6 5.1 .7 .0 11.0	77.6 5.1 2.5 .0 2.5	77.6 5.1 6.6 .0 -3.8	77.6 5.3 12.9 .0 -3.4	77.6 5.5 21.9 .0 -2.7	77.6 6.0 42.7 .0 -2.6	77.6 6.8 115.3 .0 -2.9	8.4 300.0 .0	
TOTAL AWT -12.6	-1.3	9.9	-14.4	-13.7	-13.6	-24.4	-37.4	-61.7	-100.0	-100.0	

9.9 -14.4 -13.7 -13.6 -24.4 -37.4 -61.7-100.0-100.0

CFS - curing (intenral) - conveyor belt / motor 3

	FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.7 5.0 .0 .0 -4.4	77.7 5.0 .2 .0 .3	77.7 5.0 .7 .0 11.0	77.7 5.1 2.5 .0 2.5	77.7 5.1 6.7 .0 -3.8	77.7 5.2 13.0 .0 -3.4	77.7 5.3 22.1 .0 -2.7	.0	77.7 6.1 116.1 .0 -2.9	77.7 7.1 300.0 .0 -1.9	
TOTAL AWT -12.6	-1.4	9.8	-14.4	-13.8	-13.6	-24.4	-37.4	-61.6-	-100.0-	-100.0	

SOURCE : 19 CFS - curing (intenral) - conveyor belt / motor 4

	FREQUENCY Hz									
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	77.7 12.1 .0 .0	77.7 14.1 .2 .0 1.8	77.7 17.0 .7 .0 5.1	77.7 20.1 2.5 .0 -3.0	77.7 23.1 6.7 .0 -2.2	77.7 25.0 13.0 .0 -2.2	77.7 25.0 22.1 .0 -2.7	77.7 25.0 43.1 .0 -3.0	.0	77.7 25.0 300.0 .0 -2.5
TOTAL AWT -25.0	-9.2	8	-20.6	-23.3	-33.3	-45.5	-57.2	-80.9	-100.0-	-100.0

SOURCE : 20

CFS - curing (in	tenral)	- cor								
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0	68.0	65.0	62.0 .0	58.0	.0
	77.7									
BARRIER AIR ABSORPTION	.0	. 2			6.7	25.0 12.9	22.0	42.9		300.0
TEMP & WIND GROUND						.0 -2.3			.0 -4 0	
TOTAL AWT -26.0										
SOURCE : 21					, .	_				
CFS - curing (in	tenral)		_			c 6 CY Hz_				
	31.5					1k			8k	16k
POWER LEVEL										
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	77.6					77.6 25.0				
AIR ABSORPTION						12.8				
	.0 -3.8									
TOTAL AWT -25.6 SOURCE : 22		-1.3	-21.6	-24.1	-33.5	-45.2	-56.8	-80.4	-100.0	-100.0
CFS - processing		nal) -	- RTT r	nanv						
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
	78.0									
BARRIER AIR ABSORPTION						.0 13.4			.0 119.7	
TEMP & WIND	.0	. 2			.0	.0	.0	.0	.0	.0
GROUND						-1.1				
TOTAL AWT 15.3		36.7	13.3	9.7	12.6	9.8	2.5	-26.5	-100.0	-100.0
SOURCE : 23 CFS - processing		nal) -	- RTT	revers	ing					
				FI	REQUEN	CY Hz_				
						1k				
POWER LEVEL DIRECTIVITY						93.0				
DISTANCE	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
BARRIER AIR ABSORPTION	.0.0	.0	. 0	2.4	.0 6 4	.0 12 5	21 3	.0 41 5	111 9	300 0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0 -4.9									
TOTAL AWT 6.0		-1.5	-13.4	-14.4	2	4.4	-2.4	-30.6	-100.0	-100.0
SOURCE : 24 CFS - processing		nal) -	- dust	collec	ctor /	fan				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	100.0	102.0	106.0	109.0	108.0	101.0	94.0	89.0	83.0	.0
DISTANCE	77.5	77.5	77.5	77.5	77.5	77.5 25.0	77.5	77.5	77.5	77.5
BARRIER AIR ABSORPTION	12.7	15.2	18.2	21.2	24.2	25.0	25.0	25.0	25.0	25.0
AIR ABSORPTION TEMP & WIND GROUND	.0	. 2	. 0	∠.5 .0	.0	.0	.0	.0	.0	.0
GROUND	-3.8	1.6	5.5	-2.8	-2.7	-2.2	-2.6	-2.6	-1.5	-3.0
TOTAL AWT 4.1		7.5	4.1	10.6	2.4	-12.0	-27.6	-53.0	-100.0	-100.0
SOURCE : 25 CFS - processing		nal) -	- fork	lift						
				FI	REQUEN	CY Hz_				

	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	101.0	100.0	99.0	97.0	93.0	93.0	91.0	88.0	83.0	.0
BARRIER AIR ABSORPTION TEMP & WIND	. 0 . 0 . 0	.0 .2 .0	77.4 .0 .7 .0	.0 2.4 .0	.0 6.5 .0	.0 12.6 .0	.0 21.5 .0	.0 41.9 .0	.0 113.0 .0	.0 300.0 .0
TOTAL AWT 7.5	28.4	23.4	10.4	3.5	3.6	4.2	-2.7	-30.0-	-100.0-	-100.0
SOURCE : 26 CFS - processing	(exter	rnal) -								
					EQUENC					
DOMED I THE			125							
POWER LEVEL DIRECTIVITY										
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND			77.4 .0 .7 .0							
TOTAL AWT 17.5	37.4	34.5	13.4	6.5	11.7	15.2	7.4	-20.9	-82.0-	-100.0
SOURCE : 27 CFS - processing	(exter	nal) -	- silo	vent 1	-					
				FR	EQUENC	Y Hz_				
			125							
POWER LEVEL DIRECTIVITY	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0	. 0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	. 0	. 2	77.5 .0 .7 .0 8.5	2.4	6.5	12.6	21.6	42.0	113.4	300.0
TOTAL AWT 4.2	10.9	4.6	7	3.4	6.0	-4.2	-23.8	-47.9-	-100.0-	-100.0
SOURCE : 28 CFS - processing	(exter	nal) -	- silo	vent 2	!					
				FR	EQUENC	Y Hz_				
			125							
POWER LEVEL DIRECTIVITY										
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0.0	.0	.7	.0 2.4 .0	.0	.0 12.6 .0	.0 21.5 .0	.0 41.9 .0	113.2	.0 300.0 .0
TOTAL AWT 4.2	10.9	4.6	7	3.4	6.1	-4.2	-23.8	-47.8-	-100.0-	-100.0
TOTAL AWT 21.6 SINGLE POINT CALC ENM CALC MODULE			18.9	17.7	17.7	18.5	11.0	-17.0	-80.8	-88.0
FILENAMES C:\ENM\SOURCES\2 2118506A.GEN C:\ENM\MAPS\2118			4-3							
OUT1 file and RM	NK1 fil	e								
TEMP (deg C) 25.0	HUN	MIDITY 50.0	(%)							
WIND SPEED (m/sec	e) WII	ND DIR	(deg)							

TEMP GRAD (deg C/100m)

X= 3079.000 Y= 3574.000 Z= 22.200

SOURCE : 13	
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orb processing	(011001	enegriar, backing										
		_FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k		
POWER LEVEL DIRECTIVITY	95.0	95.0	95.0	95.0	95.0	95.0		95.0 .0	95.0	.0		
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	73.8 .0 .0 .0	.0	.0	73.8 .0 1.6 .0	.0 4.3 .0	.0 8.3 .0	.0 14.4 .0	.0 28.7 .0	73.8 .0 75.8 .0 -3.3	.0 250.6 .0		
TOTAL AWT 6.7	26.9	24.7	15.9	4.6	1.9	-1.4	-1.3	-9.5	-51.3-	-100.0		
SOURCE : 14 CFS - processing	(exter	nal) -	FEL									
				FR	EQUENC	Y Hz_						

31.5 63 125 250 500 1k 16k POWER LEVEL 94.0 100.0 100.0 106.0 98.0 101.0 98.0 92.0 86.0 .0 DIRECTIVITY DISTANCE 73.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 73.8 .0 BARRIER . 0 .0 .5 1.6 4.3 8.4 76.0 251.5 AIR ABSORPTION .0 14.5 28.8 .0 TEMP & WIND .0 .0 .0 . 0 .0 . 0 .0 . 0 15.0 -3.6 4.8 15.0 TOTAL AWT 12.2 25.8 29.7 20.9 15.6 4.9 4.5 1.5 -12.7 -60.6-100.0

SOURCE : 15 CFS - curing (intenral) - FEL

FREQUENCY Hz 31.5 63 125 250 500 16k 2k 4k 8k 84.0 90.0 POWER LEVEL 90.0 96.0 88.0 91.0 88.0 82.0 76.0 .0 DIRECTIVITY .0 . 0 .0 .0 .0 . 0 . 0 .0 .0 DISTANCE 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 . 0 .0 .0 BARRIER .0 .0 .0 .0 .0 .0 4.5 .1 .5 AIR ABSORPTION .0 8.6 14.8 29.6 78.1 258.6 TEMP & WIND .0 .0 .0 .0 .0 . 0 .0 GROUND -5.7 -3.6 5.0 15.0 15.0 14.5 8.5 -3.0 1.7 15.6 19.4 10.4 5.3 -5.5 -6.1 -9.4 -23.9 -73.1-100.0 TOTAL AWT

SOURCE : 16 CFS - curing (intenral) - conveyor belt / motor 1

	_FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0 .0	72.0 .0	68.0	65.0 .0	62.0	58.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	74.2 .0 .0 .0	74.2 .0 .1 .0 -3.5	74.2 .0 .5 .0	74.2 .0 1.7 .0 15.0	74.2 .0 4.5 .0	74.2 .0 8.7 .0 14.5	74.2 .0 15.1 .0 8.7	74.2 .0 30.0 .0 2.5	.0 79.1 .0	.0 262.2 .0	
TOTAL AWT -3.6	8.4	22.2	. 2	-16.9	-21.7	-29.5	-32.9	-44.6	-92.5	-100.0	
SOURCE : 17											

CFS - curing (intenral) - conveyor belt / motor 2

	FREQUENCY Hz										
	31.5	63	125	250	500	1k	2k	4k	8k	16k	
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0	
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	74.3 5.0 .0 .0	74.3 5.0 .1 .0 -2.2	74.3 5.1 .5 .0 7.8	74.3 5.1 1.7 .0 10.5	74.3 5.2 4.6 .0 1.8	74.3 5.3 8.9 .0 -3.9	74.3 5.6 15.2 .0 -4.3	74.3 6.1 30.3 .0 -2.6	74.3 7.1 80.1 .0 -2.4	74.3 8.7 265.7 .0 -2.3	
TOTAL AWT -8.5	2.8	15.8	-7.6	-17.6	-13.9	-16.6	-25.8	-46.1-	100.0-	-100.0	

CFS - curing (intenral) - conveyor belt / motor 3

				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0				68.0				
DISTANCE BARRIER	12.4	14.6	17.6	20.6	23.6	74.4 25.0	25.0	25.0	25.0	74.4 25.0
AIR ABSORPTION TEMP & WIND	.0	.1	.5	1.7	4.6	9.0	15.4	30.6	81.0	268.7
GROUND	-4.7	9	9.1	2.2	-4.0	-2.2	-2.6	-2.9	-3.1	-4.5
TOTAL AWT -20.4	-5.2	4.8	-21.6	-24.9	-26.6	-38.2	-47.2	-65.1-	100.0	-100.0
SOURCE : 19 CFS - curing (int	cenral)	- cor	nveyor	belt /	/ moto	r 4				
				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY						68.0				
DISTANCE BARRIER						74.4 25.0				
AIR ABSORPTION	.0	.1	.5	1.7	4.6	9.0	15.5	30.7	81.2	269.5
TEMP & WIND GROUND	-4.5	5	8.3	.1	-4.5	.0 4	-3.1	-2.5	-1.9	-2.5
TOTAL AWT -21.4	-5.7	3.5	-21.6	-23.7	-27.0	-40.0	-46.8	-65.6-	100.0	-100.0
SOURCE : 20 CFS - curing (int	cenral)	- cor	nveyor	belt /	/ moto	r 5				
				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0					68.0				
DISTANCE	74.3					74.3				
BARRIER AIR ABSORPTION						25.0 8.8 .0				
TEMP & WIND GROUND	.0 -4.4	.0 3	.0 7.4	.0 -1.1	.0 -4.1	.0 -1.7	.0 -1.6	.0 -3.1	.0 -1.7	.0 -1.7
TOTAL AWT -19.5	-4.8	5.2	-18.8	-20.6	-25.5	-38.4	-47.9	-64.5-	100.0	-100.0
SOURCE : 21 CFS - curing (int	cenral)	- cor	nveyor	belt /	/ moto	r 6				
				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0 .0	93.0	80.0	74.0	72.0 .0	68.0	65.0	62.0	58.0	.0
	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
BARRIER AIR ABSORPTION TEMP & WIND	.0	.1	.5	19.4	4.5	25.0 8.6	14.9	29.6	78.2	258.9
TEMP & WIND GROUND	.0 -4.4	3	7.1	.0 -1.3	.0 -3.8	8.6 .0 -2.0	.0 -1.9	.0 -2.3	.0 -2.9	.0 -3.1
TOTAL AWT -19.0	-4.4	5.8	-18.0	-19.8	-25.1	-37.7	-47.0	-64.4-	100.0-	-100.0
SOURCE : 22 CFS - processing	(exter	nal) -	- RTT r	manv						
				FF	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	111.0	114.0	103.0	104.0	103.0	100.0	98.0	94.0	88.0	.0
	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
BARRIER AIR ABSORPTION	.0	.0	.0	.0 1.7	.0 4.6	.0 8.9 .0	.0 15.3	.0 30.3	.0 80.2	.0 266.0
TEMP & WIND	.0	.0 -3.5	.0	.0 15.0	.0	.0 14.6	.0	.0	.0 -2.8	.0 -5.5
TOTAL AWT 18.1										
SOURCE : 23						2.2	• •	-2.3		
CFS - processing	(exter	.nal) -				-יו ער				
	21 5					CY Hz				1.61
	31.5	63	125	250	500	1k	2k	4k	8k	16k

POWER LEVEL DIRECTIVITY	57.0 .0	75.0 .0	75.0 .0	79.0 .0	89.0	93.0	91.0 .0	87.0 .0	77.0 .0	.0
DISTANCE	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
BARRIER AIR ABSORPTION TEMP & WIND	. 0	. 0	. 0	.0	.0	. 0	. 0	.0	. 0	.0
AIR ABSORPTION	. 0	.1	.5	1.6	4.3	8.3	14.3	28.6	75.3	248.9
GROUND	-5.7	-3.6	4.8	15.0	15.0	14.3	8.1	1.9	-3.3	-5.4
momar aum E										
TOTAL AWT .5	-11.1	4.8	-4.0	-11.3	-4.0	-3.3	-5.1	-17.2	-68.7	-100.0
SOURCE : 24										
CFS - processing	(exte	rnal) ·	- dust	colle	ctor /	ian				
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	100 0	102 0	106 0	100 0	100 0	101 0	04.0	90 0	02 0	0
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
DISTANCE	73.9	73 9	73 9	73 0	73 9	73 9	73 9	73 9	73 0	73 9
BARRIER	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AIR ABSORPTION	. 0	.1	. 5	1.6	4.4	8.4	14.5	29.0	76.4	252.9
BARRIER AIR ABSORPTION TEMP & WIND GROUND	-5.7	-3.6	4.9	15.0	15.0	14.4	8.3	2.1	-3.1	-5.5
TOTAL AWT 16.3	31.8	31.6	26.8	18.5	14.8	4.3	-2.7	-16.0	-64.2	-100.0
SOURCE : 25 CFS - processing		rnal).	- fork	1;f+						
CFS - processing	(excel									
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL										
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
BARRIER AIR ABSORPTION TEMP & WIND	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0
AIR ABSORPTION	.0	.1	.5	1.6	4.4	8.4	14.6	29.0	76.6	253.4
GROUND	-5.7	-3.6	4.9	15.0	15.0	14.4	8.4	2.2	-3.1	-5.5
TOTAL AWT 8.2										
COLLDOE . 36										
SOURCE : 26 CFS - processing		rnal) ·	- aggr	egate 1	unload					
		rnal) ·								
	(exter			FI	REQUEN	CY Hz_				
	(exter				REQUEN	CY Hz_		4k	8k	
CFS - processing	31.5	63 111.0	125 102.0	FI 250 100.0	500 500	CY Hz_ 1k 104.0	2k 101.0	97.0	105.0	.0
CFS - processing	31.5	63 111.0	125 102.0	FI	500 500	CY Hz_ 1k 104.0	2k 101.0	97.0	105.0	.0
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0	63 111.0 .0	125 102.0 .0 73.8	250 100.0 .0	500 101.0 .0	1k 104.0 .0 73.8	2k 101.0 .0 73.8	97.0 .0 73.8	105.0 .0 73.8	.0 .0
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BAPPIEP	31.5 110.0 .0 73.8	63 111.0 .0	125 102.0 .0	250 100.0 .0	500 101.0 .0	1k 104.0 .0 73.8	2k 101.0 .0	97.0 .0 73.8	105.0 .0	.0 .0 73.8
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BAPPIEP	31.5 110.0 .0 73.8	63 111.0 .0	125 102.0 .0	250 100.0 .0	500 101.0 .0	1k 104.0 .0 73.8	2k 101.0 .0	97.0 .0 73.8	105.0 .0	.0 .0 73.8
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0 73.8	63 111.0 .0	125 102.0 .0	250 100.0 .0	500 101.0 .0	1k 104.0 .0 73.8	2k 101.0 .0	97.0 .0 73.8	105.0 .0	.0 .0 73.8
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	73.8 .0 .0 -5.7	63 111.0 .0 73.8 .0 .1 .0 -3.6	125 102.0 .0 73.8 .0 .5 .0 4.8	73.8 .0 1.6 .0	73.8 0 4.3 .0	1k 104.0 0 73.8 0 8.3 0 14.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9	97.0 .0 73.8 .0 28.7 .0	105.0 .0 73.8 .0 75.6 .0 -3.4	.0 .0 73.8 .0 249.9 .0 -5.4
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9	63 111.0 .0 73.8 .0 .1 .0 -3.6	125 102.0 .0 73.8 .0 .5 .0 4.8	73.8 .0 1.6 .0	73.8 0 4.3 .0	1k 104.0 0 73.8 0 8.3 0 14.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9	97.0 .0 73.8 .0 28.7 .0	105.0 .0 73.8 .0 75.6 .0 -3.4	.0 .0 73.8 .0 249.9 .0 -5.4
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 110.0 .0 73.8 .0 .0 .0 -5.7	63 111.0 .0 73.8 .0 .1 .0 -3.6	125 102.0 .0 73.8 .0 .5 .0 4.8	73.8 0.0 1.6 0.0 15.0	500 101.0 .0 73.8 .0 4.3 .0 15.0	1k 104.0 0 73.8 0 8.3 0 14.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9	97.0 .0 73.8 .0 28.7 .0	105.0 .0 73.8 .0 75.6 .0 -3.4	.0 .0 73.8 .0 249.9 .0 -5.4
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	31.5 110.0 .0 73.8 .0 .0 .0 -5.7	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0	73.8 .0 1.6 .0 15.0 9.6 vent	73.8 .0 4.3 .0 7.9	1k 104.0 .0 73.8 .0 8.3 .0 14.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9	97.0 .0 73.8 .0 28.7 .0 1.8	105.0 .0 73.8 .0 75.6 .0 -3.4	.0 .0 73.8 .0 249.9 .0 -5.4
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0	73.8 .0 1.66 .0 15.0 9.6	73.8 0.15.0 7.9	1k 104.0 .0 73.8 .0 8.3 .0 14.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9	97.0 .0 73.8 .0 28.7 .0 1.8	105.0 .0 73.8 .0 75.6 .0 -3.4	.0 .0 73.8 .0 249.9 .0 -5.4
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27	31.5 110.0 .0 73.8 .0 .0 .0 .0 -5.7 41.9 (extendal)	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0 - silo	73.8 .0 1.6 .0 15.0 9.6 vent 1	73.8 .0 4.3 .0 15.0 7.9	1k 104.0 .0 73.8 .0 8.3 .0 14.2 7.8	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (exten	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7 cnal)	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0 - silo	73.8 .0 1.6 .0 15.0 9.6 vent : 250 89.0	73.8 0.0 15.0 73.8 0.0 73.8 7.9 15.0 7.9	1k 104.0 .0 73.8 .0 8.3 .0 14.2 7.8 CY Hz 1k 81.0	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (external control of the control o	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7 cnal)	125 102.0 0 73.8 0 0 5 0 4.8 23.0 - silo 125 86.0 0	73.8 .0 1.6 .0 15.0 9.6 vent : 250 89.0 .0	73.8 00 101.0 73.8 0 4.3 0 15.0 7.9	1k 104.0 0 73.8 0 8.3 0 14.2 7.8 CY Hz 1k 81.0 0	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0 .0 .0 .0 .0 .0 -5.7 41.9 (exter	63 111.0 .0 73.8 .0 .1 .0 .3.6 40.7 cnal) 63 82.0 .0 73.8	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0 - silo 125 86.0 .0 73.8	F1 250 F1 250 F1 250 F1 250 F1 250 F1 3.8	73.8 .0 4.3 .0 15.0 7.9 1 REQUENC 500 88.0 .0	1k 104.0 .0 73.8 .0 8.3 .0 14.2 7.8 CY Hz 1k 81.0 .0 73.8	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (external state of the	63 111.0 .0 73.8 .0 .0 .1 .0 -3.6 40.7 63 82.0 .0 73.8 .0 73.8	125 102.0 0 73.8 0 0 55 0 4.8 23.0 - silo 125 86.0 0 73.8 0 73.8	FI 250 100.0 .0 1.66 .0 15.0 9.6 vent : FI 250 89.0 .0 73.8 .0 .0 73.8 .0 .0	73.8 0.0 101.0 0.0 73.8 0.0 15.0 7.9 1 1 REQUENC 500 88.0 0.0 73.8	1k 104.0 0 73.8 0 8.3 0 14.2 7.8 EY Hz 1k 81.0 0 73.8 0 73.8	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0	105.0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (external state of the	63 111.0 .0 73.8 .0 .0 .1 .0 -3.6 40.7 63 82.0 .0 73.8 .0 73.8	125 102.0 0 73.8 0 0 55 0 4.8 23.0 - silo 125 86.0 0 73.8 0 73.8	FI 250 100.0 .0 1.66 .0 15.0 9.6 vent : FI 250 89.0 .0 73.8 .0 .0 73.8 .0 .0	73.8 0.0 101.0 0.0 73.8 0.0 15.0 7.9 1 1 REQUENC 500 88.0 0.0 73.8	1k 104.0 0 73.8 0 8.3 0 14.2 7.8 EY Hz 1k 81.0 0 73.8 0 73.8	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0	105.0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (external state of the	63 111.0 .0 73.8 .0 .0 .1 .0 -3.6 40.7 63 82.0 .0 73.8 .0 73.8	125 102.0 0 73.8 0 0 55 0 4.8 23.0 - silo 125 86.0 0 73.8 0 73.8	FI 250 100.0 .0 1.66 .0 15.0 9.6 vent : FI 250 89.0 .0 73.8 .0 .0 73.8 .0 .0	73.8 0.0 101.0 0.0 73.8 0.0 15.0 7.9 1 1 REQUENC 500 88.0 0.0 73.8	1k 104.0 0 73.8 0 8.3 0 14.2 7.8 EY Hz 1k 81.0 0 73.8 0 73.8	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0	105.0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (exter 31.5 84.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 111.0 .0 73.8 .0 .0 .1 .0 -3.6 40.7 63 82.0 .0 73.8 .0 .0 .1 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	125 102.0 0 73.8 0 0 5 0 4.8 23.0 - silo 73.8 0 73.8 0 6.9	FI 250 100.0 .0 1.66 .0 15.0 P.6 Vent : FI 250 89.0 .0 1.66 .0 15.0 P.6 73.8 .0 .0 9.5 P.6	73.8 0.0 101.0 0.0 73.8 0.0 15.0 7.9 1 1 REQUENC 88.0 0.0 73.8 0.0 4.3 0.0	1k 104.0 0 73.8 8.3 0 14.2 7.8 CY Hz 1k 81.0 0 73.8 81.0 0 8.4 0 -4.4	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0 14.4 .0 -2.6	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0	105.0 73.8 .0 75.6 .0 -3.4 -40.9 8k 63.0 .0 76.0 .0 -2.8	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1 SOURCE: 28	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (exter	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7 cnal) 63 82.0 .0 73.8 .0 .0 -1.9	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0 - silo 125 86.0 .0 73.8 .0 .0 6.9 4.9	FI 250 100.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	73.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1k 104.0 0 73.8 8.3 0 14.2 7.8 CY Hz 1k 81.0 0 73.8 81.0 0 8.4 0 -4.4	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0 14.4 .0 -2.6	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0	105.0 73.8 .0 75.6 .0 -3.4 -40.9 8k 63.0 .0 76.0 .0 -2.8	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1	31.5 110.0 0 0 73.8 0 0 0 -5.7 41.9 (externormal state of the state of	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7 cnal) 63 82.0 .0 73.8 .0 .0 -1.9	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0 - silo 125 86.0 .0 73.8 .0 .0 6.9 4.9	FI 250	73.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1k 104.0 0 73.8 8.3 0 14.2 7.8 CY Hz 1k 81.0 0 73.8 81.0 0 8.4 0 -4.4	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0 14.4 .0 -2.6	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0	105.0 73.8 .0 75.6 .0 -3.4 -40.9 8k 63.0 .0 76.0 .0 -2.8	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1 SOURCE: 28	31.5 110.0 0 0 73.8 0 0 0 -5.7 41.9 (externormal state of the state of	63 111.0	125 102.0 0 73.8 0 0 55 0 4.8 23.0 - silo 73.8 0 0 5 0 4.9 - silo	FI 250	73.8 0.0 101.0 73.8 0.0 4.3 0.0 15.0 7.9 1 1 88.0 0.0 73.8 0.0 15.0 88.0 0.0 9.0 88.9	1k 104.0 0 73.8 0 8.0 14.2 7.8 2Y Hz 1k 81.0 0 73.8 0 8.4 0 -4.4 3.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 14.4 .0 -2.6	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0 -2.6	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1 SOURCE: 28	31.5 110.0 .0 73.8 .0 .0 .0 -5.7 41.9 (exter 31.5 84.0 .0 .0 .0 .0 -5.0 15.1 (exter	63 111.0 .0 73.8 .0 0 .1 .0 -3.6 40.7 63 82.0 .0 73.8 .0 0 -1.9 9.9 cmal)	125 102.0 0 73.8 0 0 5 0 4.8 23.0 - silo 73.8 0 6.9 4.9	FI 250 100.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	73.8 0.0 101.0 0.0 73.8 0.0 15.0 7.9 1 1 88.0 0.0 73.8 0.0 4.3 0.0 9.8 9.9	1k 104.0 0 73.8 0 8.3 0 14.2 7.8 EY Hz 1k 81.0 0 73.8 0 0 8.4 0 -4.4 3.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0 14.4 .0 -2.6 -11.7	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0 -2.6	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9 8k 63.0 .0 76.0 .0 -2.8	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1 SOURCE: 28 CFS - processing	31.5 110.0 0.0 73.8 0.0 0.0 -5.7 41.9 (externormal state of the state	63 111.0 0 73.8 0 11.0 0 73.8 1.0 0 -3.6 40.7 63 82.0 0 73.8 0 -1.9 9.9 cnal)	125 102.0 .0 73.8 .0 .5 .0 4.8 23.0 - silo 125 86.0 .0 73.8 .0 6.9 4.9 - silo	FI 250 FI 250 FI 250 FI 250 FI 250 FI 250	73.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1k 104.0 .0 .0 .0 .0 .0 .0 .0 .14.2	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0 14.4 .0 -2.6 -11.7	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0 -2.6	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9 8k 63.0 .0 73.8 .0 76.0 .0 -2.8	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 17.0 SOURCE: 27 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 8.1 SOURCE: 28	31.5 110.0 0.0 73.8 0.0 0.0 -5.7 41.9 (externormal state of the state	63 111.0 .0 73.8 .0 .1 .0 -3.6 40.7 cnal) 63 82.0 .0 73.8 .0 .1 .0 -1.9 9.9 cnal) 63 82.0	125 102.0	FI 250 FI 250 FI 250 FI 250 FI 250 FI 250	73.8 .0 4.3 .0 15.0 73.8 .0 4.3 .0 .0 9 8.9 2 REQUENCE 500 88.0 .9 8.9 2	1k 104.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	2k 101.0 .0 73.8 .0 14.4 .0 7.9 5.0 2k 74.0 .0 73.8 .0 14.4 .0 -2.6 -11.7	97.0 .0 73.8 .0 28.7 .0 1.8 -7.2 4k 69.0 .0 73.8 .0 28.8 .0 -2.6	105.0 .0 73.8 .0 75.6 .0 -3.4 -40.9 8k 63.0 .0 73.8 .0 76.0 .0 -2.8	.0 .0 73.8 .0 249.9 .0 -5.4 -100.0

```
DISTANCE
                 73.8 73.8 73.8 73.8 73.8
                                            73.8 73.8 73.8 73.8 73.8
BARRIER
                                   .0
                                        .04.3
AIR ABSORPTION
                  .0
                        .1
                             . 5
                                  1.6
                                              8.4 14.4 28.8 75.9 250.9
                   . 0
                               . 0
TEMP & WIND
                         .0
                                    . 0
                                         . 0
                                               .0
                                                     . 0
                                                           . 0
                                                   -2.6 -2.6
                                   9.5
                                             -4.4
                                                              -2.8
                 -5.0
                     -1.9
                             6.8
                                         . 9
TOTAL AWT 8.1 15.1 10.0
                                              3.3 -11.6 -31.0 -83.9-100.0
                             4.9
                                   4.1
                                         9.0
TOTAL AWT 23.0 45.7 45.6 30.6 21.8 18.2 12.9 8.8 -3.2 -40.4 -88.0 SINGLE POINT CALCULATION ENM CALC MODULE
FILENAMES
 C:\ENM\SOURCES\2118506A\506A-3
 2118506A.GEN
 C:\ENM\MAPS\2118506A\506A
 OUT1 file and RNK1 file
TEMP (deg C)
                 HUMIDITY (%)
WIND SPEED (m/sec) WIND DIR (deg)
TEMP GRAD (deg C/100m)
X= 2719.000 Y= 3953.000 Z= 22.200
SOURCE :
            13
CFS - processing (external) - backhoe
                                    FREOUENCY Hz
                                                               8k 16k
                31.5 63 125 250 500
                                             1k
                                                    2k
                                                         4k
POWER LEVEL
                 95.0 95.0 95.0 95.0 95.0
                                             95.0
                                                  95.0
                        .0
DIRECTIVITY
                  .0
                             .0
                                   .0
                                         . 0
                                              .0
                                                          .0
                                                                      . 0
                            74.7
                                       74.7
                                             74.7
                 74.7 74.7
                                  74.7
                                                   74.7
                      .0
                             .0
                                  .0
1.8
BARRIER
                                          .0
                                                .0
                                        4.8
AIR ABSORPTION
                  . 0
                                              9.3
                                                   15.9
                                                        31.6
                                                              83.6 277.8
                              . 5
TEMP & WIND
                   .0
                              .0
                                    .0
                                         .0
GROUND
                 -5.7 -3.5
                            5.5 15.0 15.0 14.8
                                                    9.4
                                                         3.2
                                                             -2.2 -5.5
TOTAL AWT
           4.8 25.9 23.6 14.3 3.5
                                         .5 -3.7 -5.1 -14.5 -61.1-100.0
SOURCE :
             14
CFS - processing (external) - FEL
                                   ___FREQUENCY Hz
                31.5 63 125 250 500
                                                               8k 16k
                                            1k
                                                    2k
                                                          4k
                 94.0 100.0 100.0 106.0 98.0 101.0 98.0
POWER LEVEL
                                                        92.0
                      .0
                            .0
                                         .0
DIRECTIVITY
                  .0
                                  .0
                                              . 0
                                                                     . 0
                 74.7 74.7 74.7 74.7
                                       74.7
                                             74.7
                                                   74.7
                                                         74.7
                      .0
                             .0
                                  1.8
                                        .0
BARRIER
                                               .0
                  . 0
                                                   16.0
                                              9.3
ATR ABSORPTION
                                                        31 7
                                                              83 9 278 7
                              . 5
TEMP & WIND
                        . 0
                              . 0
                   .0
                                    .0
                                         .0
GROUND
                 -5.7 -3.5
                            5.5 15.0 15.0 14.8
                                                    9.6
                                                         3.3 -2.2 -5.5
TOTAL AWT 10.5 24.9 28.6 19.3 14.5
                                        3.5
                                              2.2 -2.3 -17.7 -70.5-100.0
SOURCE :
             15
CFS - curing (intenral) - FEL
                                   ___FREQUENCY Hz___
                 31.5 63 125 250 500
                                                               8k 16k
                                             1k
POWER LEVEL
                 84.0 90.0
                                 96.0 88.0
                                                  88.0
                            90.0
                                             91.0
                                                        82.0
                                                              76.0
DIRECTIVITY
                        .0
                                         .0
DISTANCE
                 75.0
                     75.0
                            75.0
                                 75.0
                                                              75.0 75.0
                                       75.0
                                             75.0
                                                   75.0
                                                        75.0
                      .0
BARRIER
                             . 5
AIR ABSORPTION
                  .0
                                  1.8
                                        4.9
                                              9.6
                                                   16.4 32.5
                                                              86.3 286.8
TEMP & WIND
                         .0
                               . 0
                   . 0
                                    . 0
                                          . 0
GROUND
                 -5.7 -3.4
                             5.7 15.0 15.0 14.9
                                                    9.9
                                                         3.7
                                                              -1.9 -5.4
                                  4.2 -6.9 -8.4 -13.3 -29.1 -83.4-100.0
TOTAL AWT
             .1 14.6 18.3
                            8.8
SOURCE :
             16
CFS - curing (intenral) - conveyor belt / motor 1
```

__FREQUENCY Hz_

	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0		58.0	.0
DISTANCE	75.1			75.1				75.1		75.1
BARRIER AIR ABSORPTION	. 0	. 0	.0	.0 1.9	.0 5.0	.0	.0 16.7	.0 32.9	.0 87.5	.0
TEMP & WIND GROUND	.0 -5.7	.0	.0	.0	.0			32.9 .0 3.8	.0	.0
TOTAL AWT -4.7										
SOURCE : 17	7.3	21.1	1.1	10.0	23.1	31.7	30.0	40.0	100.0	100.0
CFS - curing (int	enral)	- con	veyor	belt /	motor	2				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	77.0	93.0	80.0	74.0	72.0	68.0	65.0 .0	62.0	58.0	.0
DISTANCE BARRIER	0	0	0					75.2 .0		
AIR ABSORPTION TEMP & WIND	.0	.1	.6	1.9	5.1	9.8	16.9	33.3	88.6	294.2
TEMP & WIND GROUND	.0 -5.7	.0 -3.4	.0 5.9					.0 4.0		
TOTAL AWT -4.9	7.4	21.0	-1.7	-18.1	-23.3	-32.0	-37.4	-50.6-	100.0-	-100.0
SOURCE : 18 CFS - curing (int	enral)	- con	veyor	belt /	motor	3				
				FR	EQUENC	Y Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY		93.0						62.0		
								75.3 25.0		
AIR ABSORPTION TEMP & WIND								33.6 .0 -2.0		
GROUND										
TOTAL AWT -22.1	-6.5	2.8	-22.7	-24.7	-27.8	-41.9	-49.0	-69.9-	100.0-	-100.0
TOTAL AWT -22.1 SOURCE : 19 CFS - curing (int							-49.0	-69.9-	100.0-	-100.0
SOURCE : 19			veyor		motor	- 4			100.0-	-100.0
SOURCE : 19	enral)	- con	veyor	belt /	motor	4 CY Hz				
SOURCE : 19 CFS - curing (int	31.5	- con	125	belt / FF 250	motor	14 Y Hz	2k	4k	8k	16k
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE	31.5 77.0 .0	- con 63 93.0 .0	125 80.0 .0	belt / FR 250 74.0 .0 75.3	motor EEQUENC 500 72.0 .0 75.3	1k 68.0 .0	2k 65.0 .0	4k 62.0 .0	8k 58.0 .0	16k .0 .0
SOURCE: 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0	- con 63 93.0 .0 75.3	125 80.0 .0	belt /FF 250 74.0 .0 75.3 21.7	motor 500 72.0 .0 75.3	1k 68.0 .0	2k 65.0 .0 75.3	4k 62.0 .0 75.3	8k 58.0 .0	16k .0 .0
SOURCE: 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0	- con 63 93.0 .0 75.3	125 80.0 .0	belt /FF 250 74.0 .0 75.3 21.7	motor 500 72.0 .0 75.3	1k 68.0 .0	2k 65.0 .0 75.3	4k 62.0 .0 75.3	8k 58.0 .0	16k .0 .0
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 77.0 .0 75.3 12.8 .0 .0	- con 63 93.0 .0 75.3 15.7 .1 .04	125 80.0 .0 75.3 18.7 .6 .0	FR 250 74.0 .0 75.3 21.7 1.9 .0 .9	72.0 .0 75.3 24.7 5.1 .0 -4.5	1k 68.0 .0 75.3 25.0 9.9 .05	2k 65.0 .0 75.3 25.0 17.0 .0	4k 62.0 .0 75.3 25.0 33.6 .0	8k 58.0 .0 75.3 25.0 89.5 .0	16k .0 .0 75.3 25.0 296.6 .0 -4.3
SOURCE: 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0 75.3 12.8 .0 .0	- con 63 93.0 .0 75.3 15.7 .1 .04	125 80.0 .0 75.3 18.7 .6 .0	FR 250 74.0 .0 75.3 21.7 1.9 .0 .9	72.0 .0 75.3 24.7 5.1 .0 -4.5	1k 68.0 .0 75.3 25.0 9.9 .05	2k 65.0 .0 75.3 25.0 17.0 .0	4k 62.0 .0 75.3 25.0 33.6 .0	8k 58.0 .0 75.3 25.0 89.5 .0	16k .0 .0 75.3 25.0 296.6 .0 -4.3
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5	- con 63 93.0 .0 75.3 15.7 .1 .04	125 80.0 .0 75.3 18.7 .0 8.9	FF 250 74.0 .0 75.3 21.7 1.9 .0 9	72.0 .0 72.3 24.7 5.1 .0 -4.5	1k 68.0 .0 75.3 25.0 9.9 .05	2k 65.0 .0 75.3 25.0 17.0 .0	4k 62.0 .0 75.3 25.0 33.6 .0	8k 58.0 .0 75.3 25.0 89.5 .0	16k .0 .0 75.3 25.0 296.6 .0 -4.3
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5	- con 63 93.0 .0 75.3 15.7 .1 .04 2.2	125 80.0 .0 75.3 18.7 .6 .0 8.9	pelt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9	72.0 500 72.0 .0 75.3 24.7 5.1 .0 -4.5	1k 68.0 .0 75.3 25.0 9.9 .05	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4	8k 58.0 .0 75.3 25.0 89.5 .0	16k .0 .0 75.3 25.0 296.6 .0 -4.3
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7	- con 63 93.0 .0 75.3 15.7 .1 .0 .4 2.2 - con	125 80.0 .0 75.3 18.7 .6 .0 8.9	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt /	72.0 .0 72.3 24.7 5.1 .0 -4.5	1k 68.0 .0 75.3 25.0 9.9 .05 -41.8	2k 65.0 .0 75.3 25.0 17.0 .3 -49.1	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4	16k .0 .0 75.3 25.0 296.6 .0 -4.3
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7	- con 63 93.0 .0 75.3 15.7 .1 .0 .4 2.2 - con 63 93.0	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0	72.0 .0 72.0 .0 75.3 24.7 5.1 .0 -4.5 -28.7 motor 500 72.0	1k 68.0 .0 75.3 25.0 9.95 -41.8 27 Hz_1k 68.0	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6-	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 75.3 25.0 296.6 .0 -4.3
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 tenral) 31.5 77.0 .0	- con 63 93.0 .0 75.3 15.7 .1 .04 2.2 - con 63 93.0 .0 75.2	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 veyor 125 80.0 .0 75.2	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2	72.0 .0 72.0 .0 75.3 24.7 5.1 .0 -4.5 -28.7 motor 500 72.0 .0	1k 68.0 .0 75.3 25.0 9.9 .05 -41.8 1k 68.0 .0 75.2	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6-	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 75.3 25.0 296.6 .0 -4.3 -100.0
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 cenral) 31.5 77.0 .0 75.2 9.2 .0	- con 63 93.0 .0 75.3 15.7 .1 .0 4 2.2 - con 63 93.0 .0 75.2 11.5 .1	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 veyor 125 80.0 .0 75.2 13.0	belt / 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 1.9	72.0 72.0 75.3 24.7 5.1 0 -4.5 -28.7 motor 500 72.0 0 75.2 19.1 5.0	1k 68.0 .0 75.3 25.0 9.9 .05 -41.8 5 5 1k 68.0 .0 75.2 222.1 9.7	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6-	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 .25.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 cenral) 31.5 77.0 .0 75.2 9.2 .0	- con 63 93.0 .0 75.3 15.7 .1 .0 4 2.2 - con 63 93.0 .0 75.2 11.5 .1	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 veyor 125 80.0 .0 75.2 13.0	belt / 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 1.9	72.0 72.0 75.3 24.7 5.1 0 -4.5 -28.7 motor 500 72.0 0 75.2 19.1 5.0	1k 68.0 .0 75.3 25.0 9.9 .05 -41.8 5 5 1k 68.0 .0 75.2 222.1 9.7	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6-	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 .25.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 cenral) 31.5 77.0 .0 75.2 9.2 .0 .0 -4.3	- con 63 93.0 .0 75.3 15.7 .1 .0 4 2.2 - con 63 93.0 .0 75.2 11.5 .1 .0 .0	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 eveyor 125 80.0 .0 75.2 13.0 6.9	belt / 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 0 1.9 .0 -1.7	72.0 500 72.0 .0 75.3 24.7 5.1 .0 -4.5 -28.7 motor 500 72.0 .0 75.2 19.1 5.0 .0	1k 68.0 .0 75.3 25.0 9.9 .05 -41.8 5 Y Hz 1k 68.0 .0 75.2 22.1 9.7 .0 -2.1	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7 .0 -2.3	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6- 4k 62.0 .0 75.2 25.0 33.1 .0 -2.0	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 .25.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.1 SOURCE : 21	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 tenral) 31.5 77.0 .0 75.2 9.2 .0 .0 -4.3 -3.1	- con 63 93.0 .0 75.3 15.7 .1 .0 .4 2.2 - con 63 93.0 .0 75.2 11.5 .1 .0 .0 6.2	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 eveyor 125 80.0 .0 75.2 13.0 .6 .9	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 1.9 .0 -1.7	Tool motor m	1k 68.0 .0 75.3 25.0 9.9 5 -41.8 1k 68.0 .0 75.2 22.1 9.7 0 -2.1 -36.8	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7 .0 -2.3	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6- 4k 62.0 .0 75.2 25.0 33.1 .0 -2.0	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 .25.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.1	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 cenral) 31.5 77.0 .0 75.2 9.2 .0 .0 -4.3 -3.1	- con 63 93.0 .0 75.3 15.7 .1 .0 .4 2.2 - con 63 93.0 .0 75.2 11.5 .1 .0 .0 6.2 - con	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 veyor 125 80.0 .0 75.2 13.0 .6 .0 6.9 -15.6 veyor	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 1.9 .0 -1.7 -17.4	72.0 72.0 72.0 75.3 24.7 51.0 74.5 -28.7 motor 500 72.0 0 75.2 19.1 50.0 -3.6	1k 68.0 0 75.3 25.0 9.9 05 -41.8 1k 68.0 0 75.2 22.1 9.7 0 -2.1 -36.8	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7 .0 -2.3	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6- 4k 62.0 .0 75.2 25.0 33.1 .0 -2.0	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 .25.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.1 SOURCE : 21	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 denral) 31.5 77.0 .0 75.2 9.2 .0 .0 -4.3 -3.1	- con 63 93.0 .0 75.3 15.7 .1 .0 .4 2.2 - con 63 93.0 .0 75.2 11.5 .1 .0 .0 6.2 - con	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 Eveyor 125 80.0 .0 75.2 13.0 .6 .0 6.9 -15.6	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 1.9 .0 -1.7 -17.4 belt / FF	To motor mot	1k 68.0 .0 75.3 25.0 9.9 5 -41.8 68.0 .0 75.2 22.1 9.7 .0 -2.1 -36.8	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7 .0 -2.3 -49.6	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6- 4k 62.0 .0 75.2 25.0 33.1 .0 -2.0	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 75.3 25.0 296.6 .0 -4.3 -100.0
SOURCE : 19 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -22.8 SOURCE : 20 CFS - curing (int POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -18.1 SOURCE : 21	31.5 77.0 .0 75.3 12.8 .0 .0 -4.5 -6.7 cenral) 31.5 77.0 .0 75.2 .0 .0 -4.3 -3.1 cenral)	- con 63 93.0 .0 75.3 15.7 .1 .0 .4 2.2 - con 63 93.0 .0 75.2 11.5 .1 .0 .0 6.2 - con	125 80.0 .0 75.3 18.7 .6 .0 8.9 -23.5 veyor 125 80.0 .0 75.2 13.0 .6 .0 .0 .0	belt / FF 250 74.0 .0 75.3 21.7 1.9 .0 .9 -25.8 belt / FF 250 74.0 .0 75.2 16.0 1.9 .0 -1.7 -17.4 belt / FF	Two tor to the control of the contro	1k 68.0 .0 .75.3 .25.0 .05	2k 65.0 .0 75.3 25.0 17.0 .0 -3.3 -49.1 2k 65.0 .0 75.2 25.0 16.7 .0 -2.3 -49.6	4k 62.0 .0 75.3 25.0 33.6 .0 -2.4 -69.6- 4k 62.0 .0 75.2 25.0 33.1 .0 -2.0 -69.2-	8k 58.0 .0 75.3 25.0 89.5 .0 -2.4 100.0-	16k .0 .0 .75.3 .25.0 .296.6 .0 .4.3 -100.0 16k .0 .0 .0 -4.1 -100.0

DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	74.9	74.9	74.9	74.9	74.9	74.9	74.9 24.5	74.9	74.9	74.9
AIR ABSURPTION	. 0	.1	. 5	1.8	4.9	9.5	16.3	32.3	85.8	285.3
TEMP & WIND GROUND	.0 -4 2	.0	.0 6.4	.0 -2 1	.0 -3.0	.0 -2 1	.0 -2.5	.0 -2 7	.0 -2 9	.0 -3 6
TOTAL AWT -17.4	-2.5	6.7	-14.6	-16.1	-23.3	-35.8	-48.3	-67.6-	-100.0-	-100.0
SOURCE : 22 CFS - processing		1 \	DMM -							
Crs - processing	(excel	Lilai)								
				FI	REQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL										
DIRECTIVITY										
DISTANCE BARRIER							74.9 .0			
AIR ABSORPTION	.0	.1	.5	1.8	4.9	9.5	16.3	32.2	85.5	284.2
TEMP & WIND GROUND	.0 -5.7	.0 -3.4	.0 5.6	.0 15.0			.0 9.7		.0 -2.1	.0 -5.5
TOTAL AWT 17.4									-70 4-	100 0
		12,1	21.7	12.5	0.2	.0	2.0	10.0	70.1	100.0
SOURCE: 23 CFS - processing		rnal) -	- RTT 1	reversi	ing					
						CY Hz				
	21 5		105		~			47	03	1.61
							2k			
POWER LEVEL DIRECTIVITY							91.0 .0			
DISTANCE BARRIER	.0	.0	.0	.0	74.7	74.7	74.7 .0	.0	.0	.0
AIR ABSORPTION	. 0	.1	. 5	1.8	4.8	9.2	15.9	31.5	83.4	277.0
TEMP & WIND GROUND	-5.7	-3.5	5.4	15.0	15.0	14.8	.0 9.4	3.2	-2.2	.0 -5.5
TOTAL AWT -2.2	-12.0	3.7	-5.6	-12.5	-5.4	-5.7	-9.0	-22.4	-78.8-	-100.0
SOURCE : 24 CFS - processing		rnal) ·	- dust	collec	ctor /	fan				
		rnal) ·								
	(exter			FI	REQUEN	CY Hz_		415	01r	
CFS - processing	31.5	63	125	FI	REQUENC 500	CY Hz_	2k			
CFS - processing	31.5 100.0	63 102.0	125 106.0	FF 250	500 108.0	CY Hz_ 1k 101.0	2k 94.0	89.0	83.0	.0
CFS - processing POWER LEVEL DIRECTIVITY	31.5 100.0	63 102.0 .0	125 106.0 .0	250 109.0	500 108.0	1k 101.0	2k 94.0 .0	89.0	83.0	.0
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 100.0 .0 74.7	63 102.0 .0 74.7	125 106.0 .0	250 109.0 .0 74.7	500 108.0 .0 74.7	1k 101.0 .0 74.7	2k 94.0 .0 74.7	89.0 .0 74.7	83.0 .0 74.7	.0 .0 74.7
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	31.5 100.0 .0 74.7	63 102.0 .0 74.7	125 106.0 .0 74.7	250 109.0 .0 74.7	500 108.0 .0 74.7 .0	1k 101.0 .0 74.7 .0 9.3	2k 94.0 .0 74.7 .0 16.0	89.0 .0 74.7 .0 31.6	83.0 .0 74.7 .0 83.9	.0 .0 74.7 .0 278.6
CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 100.0 .0 74.7 .0 .0	63 102.0 .0 74.7 .0 .1	125 106.0 .0 74.7 .0 .5	250 109.0 .0 74.7 .0 1.8	500 108.0 .0 74.7 .0 4.8	1k 101.0 .0 74.7 .0 9.3 .0	2k 94.0 .0 74.7	89.0 .0 74.7 .0 31.6	83.0 .0 74.7 .0 83.9	.0 .0 74.7 .0 278.6
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 100.0 .0 74.7 .0 .0 .0	63 102.0 .0 74.7 .0 .1 .0 -3.5	125 106.0 .0 74.7 .0 .5 .0	74.7 .0 1.8 .0 .0 .0 .0 .0 .0 .0 .0	500 108.0 .0 74.7 .0 4.8 .0	1k 101.0 0 74.7 0 9.3 .0 14.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6	89.0 .0 74.7 .0 31.6 .0 3.3	83.0 .0 74.7 .0 83.9 .0 -2.2	.0 .0 74.7 .0 278.6 .0 -5.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0	31.5 100.0 .0 74.7 .0 .0 .0 .0 -5.7	63 102.0 .0 74.7 .0 .1 .0 -3.5	125 106.0 .0 74.7 .0 .5 .0	74.7 .0 1.8 .0 .0 .0 .0 .0 .0 .0 .0	500 108.0 .0 74.7 .0 4.8 .0	1k 101.0 0 74.7 0 9.3 .0 14.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6	89.0 .0 74.7 .0 31.6 .0 3.3	83.0 .0 74.7 .0 83.9 .0 -2.2	.0 .0 74.7 .0 278.6 .0 -5.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 100.0 .0 74.7 .0 .0 .0 -5.7	63 102.0 .0 74.7 .0 .1 .0 -3.5	125 106.0 .0 74.7 .0 .5 .0 5.5	74.7 .00 .01.8 .015.0	500 108.0 .0 74.7 .0 4.8 .0	1k 101.0 0 74.7 0 9.3 .0 14.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6	89.0 .0 74.7 .0 31.6 .0 3.3	83.0 .0 74.7 .0 83.9 .0 -2.2	.0 .0 74.7 .0 278.6 .0 -5.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE : 25	31.5 100.0 .0 74.7 .0 .0 .0 -5.7	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3	74.7 .0 1.8 .0 15.0	500 108.0 .0 74.7 .0 4.8 .0 15.0	1k 101.0 0 74.7 0 9.3 0 14.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6	89.0 .0 74.7 .0 31.6 .0 3.3	83.0 .0 74.7 .0 83.9 .0 -2.2	.0 .0 74.7 .0 278.6 .0 -5.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE : 25	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3	FF 250 109.0 .0 74.7 .0 1.8 .0 15.0 17.5	500 108.0 .0 74.7 .0 4.8 .0 15.0 13.5	1k 101.0 .0 74.7 .0 9.3 .0 14.8 2.2	2k 94.0 .0 74.7 .00 16.0 .0 9.6	89.0 .0 74.7 .0 31.6 .0 3.3	83.0 .0 74.7 .0 83.9 .0 -2.2	.0 .0 74.7 .0 278.6 .0 -5.5
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exter	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3	F1 250 109.0 .0 74.7 .0 1.8 .0 15.0 17.5 lift F1 250	500 108.0 .0 74.7 .0 4.8 .0 15.0 13.5	1k 101.0 .0 74.7 .0 9.3 .0 14.8 2.2	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5-	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25	31.5 100.0 0 74.7 0 0 0 -5.7 30.9 (external states of the state	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal)	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork:	FF 250 109.0 109.0 109.0 109.0 109.0 15.0 17.5 11ft FF 250 97.0	74.7 .0 4.8 .0 15.0 13.5	1k 101.0 .0 74.7 .0 9.3 .0 14.8 2.2	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5-	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exter	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal)	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0	FF 250 109.0 .0 .0 .0 .1.8 .0 .0 .15.0 17.5 liftFF 250 97.0 .0	74.7 .0 4.8 .0 15.0 13.5	1k 101.0 0 74.7 0.0 14.8 2.2 CY Hz 1k	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5-	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exter 31.5 101.0 .0 74.8	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8	FF 250 109.0 .0 .0 .0 .1.8 .0 .0 .15.0 17.5 lift FF 250 97.0 .0 .74.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	74.7 0.0 108.0 0.0 74.7 4.8 0.0 15.0 13.5 REQUENC 93.0 0.0 74.8	1k 101.0 0 74.7 0.0 14.8 2.2 CY Hz 1k 93.0 0 74.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5-	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exter 31.5 101.0 .0 74.8	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8	FF 250 109.0 .0 .0 .0 .1.8 .0 .0 .15.0 .0 .17.5 lift	74.7 0.0 108.0 0.0 74.7 4.8 0.0 15.0 13.5 REQUENC 93.0 0.0 74.8	1k 101.0 0 74.7 0.0 14.8 2.2 CY Hz 1k 93.0 0 74.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5-	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exter 31.5 101.0 .0 74.8	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8	FF 250 109.0 .0 .0 .0 .1.8 .0 .0 .15.0 .0 .17.5 lift	74.7 0.0 108.0 0.0 74.7 4.8 0.0 15.0 13.5 REQUENC 93.0 0.0 74.8	1k 101.0 0 74.7 0.0 14.8 2.2 CY Hz 1k 93.0 0 74.8	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5-	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exter 31.5 101.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0 .0 .1 .0 -3.4	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8 .0 .5 .0 5.5	FF 250 109.0 .0 .0 .0 .1.80	74.7 .0 108.0 .0 74.7 .0 4.8 .0 15.0 13.5 REQUENC 93.0 .0 74.8 .0 4.8 .0 15.0	2Y Hz	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5- 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.7	31.5 100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0 .0 .1 .0 -3.4	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8 .0 .5 .0 5.5	FF 250 109.0 .0 .0 .0 .1.80	74.7 .0 108.0 .0 74.7 .0 4.8 .0 15.0 13.5 REQUENC 93.0 .0 74.8 .0 4.8 .0 15.0	2Y Hz	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5- 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exten	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0 .1 .0 -3.4	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - forki	FF 250 109.0 .0 74.7 .0 1.8 .0 15.0 74.8 .0 15.0 15.0 15.0 15.0 74.8 .0 15.0 15.0 15.4	74.7 .0 4.8 .0 15.0 13.5 REQUENO 93.0 .0 74.8 .0 15.0	2 Hz_ 1k 101.0 .0 .0 .0 .0 .0 .0 .0 .14.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5- 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.7 SOURCE: 26	31.5 100.0 .0 74.7 .0 .0 .0 -5.7 30.9 (exten	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) - 63 100.0 .0 .1 .0 -3.4 28.5	125 106.0 .0 74.7 .0 5.5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8 .0 .5 .0 5.5 18.1	FI 250 109.0 .0 .0	74.7 .0 15.0 13.5 REQUENCE 500 93.0 .0 74.8 .0 15.0 -1.6	1k 101.0 .0 74.7 .0 .0 14.8 2.2 2Y Hz 1k 93.0 .0 74.8 .0 9.4 .0 14.9	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5- 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.7 SOURCE: 26	31.5 100.0 .0 74.7 .0 .0 .0 .0 -5.7 30.9 (exter 31.5 101.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0 .1 .0 .3.4 28.5	125 106.0 .0 74.7 .0 .5 .0 5.5 25.3 - fork: 125 99.0 .0 74.8 .0 .5 .0 5.5 18.1 - aggre	FF 250 109.0 .0 .0 .0 .1.8 .0 .0 .15.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	74.7 .0 15.0 13.5 REQUENC 500 74.7 .0 15.0 15.0 13.5	2Y Hz_1k 101.0	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5- 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 .0 .0 .0 .0 .0 .5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.7 SOURCE: 26 CFS - processing	31.5 100.0 74.7 .0 .0 .0 -5.7 30.9 (exter 31.5 101.0 .0 74.8 .0 .0 .0 -5.7 31.8 (exter	63 102.0 .0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 .0 74.8 .0 .1 .0 -3.4 28.5	125 106.0 0 74.7 0 5.5 0 5.5 25.3 - fork: 125 99.0 0 74.8 0 5.5 18.1 - aggre	FF 250 109.0 .0 .0 .1.8 .0 .0 .15.0 .0 .0 .0 .0 .0 .0 .0 .15.0 .0 .15.0 .0 .15.0 .0 .15.0 .0 .15.0	74.7 .0 4.8 .0 15.0 13.5 REQUENC 500 93.0 .0 74.8 .0 15.0	1k 101.0 .0 74.7 .0 9.3 .0 14.8 2.2 2Y Hz 1k 93.0 .0 74.8 .0 9.4 .0 14.9 -6.1	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8 -9.7	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 .0 74.7 .0 278.6 .0 -5.5 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.0 SOURCE: 25 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 6.7 SOURCE: 26	31.5 100.0 74.7 .0 .0 .0 -5.7 30.9 (externormal state of the content of the conte	63 102.0 74.7 .0 .1 .0 -3.5 30.6 rnal) 63 100.0 74.8 .0 .1 .0 -3.4 28.5 rnal) 63	125 106.0 .0 74.7 .0 .5.5 .0 5.5 25.3 - forki 125 99.0 .0 74.8 .0 .5.5 .0 18.1 - aggree 125 102.0	FF 250 100.0 FF 250 FF 250 100.0	500 108.0 .0 74.7 .0 4.8 .0 15.0 74.8 .0 15.0 74.8 .0 15.0 74.8 .0 15.0 13.5	CY Hz	2k 94.0 .0 74.7 .0 16.0 .0 9.6 -6.2 2k 91.0 .0 74.8 .0 16.1 .0 9.8 -9.7	89.0 .0 74.7 .0 31.6 .0 3.3 -20.7 4k 88.0 .0 74.8 .0 31.9 .0 3.6	83.0 .0 74.7 .0 83.9 .0 -2.2 -73.5 8k 83.0 .0 74.8 .0 84.6 .0 -2.0	.0 .0 .0 74.7 .0 278.6 .0 -5.5 -100.0

BARRIER AIR ABSORPTION TEMP & WIND GROUND	.0 . .0 . .0 .	0 .0 1 .5 0 .0 5 5.4	.0 1.8 .0 15.0	.0 4.8 .0 15.0	.0 9.2 .0 14.8	.0 15.9 .0 9.4	.0 31.4 .0 3.2	.0 83.3 .0 -2.2	.0 276.6 .0 -5.5
TOTAL AWT 15.5	41.0 39.	7 21.4	8.6	6.6	5.3	1.1	-12.3	-50.7-	-100.0
SOURCE : 27 CFS - processing	(external)	- silo	vent 1						
			FR	REQUENC	Y Hz_				
	31.5 63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0 82.								
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	74.7 74. .0 . .0 . .0 . .0 .	0.0	. 0	. 0	. 0	. 0	. 0	74.7 .0 83.5 .0 -2.6	. 0
TOTAL AWT 5.9	14.2 8.	9 3.2	2.1	6.7	1.0	-12.6	-34.5	-92.6-	-100.0
SOURCE : 28 CFS - processing	(external)	- silo	vent 2	2					
	31.5 63								
POWER LEVEL DIRECTIVITY	84.0 82.	0 86.0	89.0	.0	81.0	74.0	69.0	63.0	.0
BARRIER	74.7 74. .0 .	0.0	. 0	.0	.0	.0	.0	. 0	. 0
AIR ABSORPTION TEMP & WIND	.0 .	1 .5 0 .0	1.8	4.8	9.2	15.9 .0	31.5	83.4	277.0 .0
GROUND	-4.9 -1.	/ /.6	10.4	1.8	-4.0	-3.9	-2.7	-2.6	-2.4
TOTAL AWT 5.9	14.2 8.	9 3.2	2.1	6.7	1.1	-12.6	-34.5	-92.5-	-100.0
TOTAL AWT 21.8 SINGLE POINT CALC ENM CALC MODULE		7 29.1	20.8	16.8	10.6	5.2	-8.1	-50.2	-88.0
FILENAMES C:\ENM\SOURCES\2 2118506A.GEN C:\ENM\MAPS\2118		6A-3							
OUT1 file and RN	JK1 file								
TEMP (deg C) 25.0	HUMIDIT	Y (%)							
WIND SPEED (m/sec	e) WIND DI	R (deg)							
TEMP GRAD (deg C/	100m)								
X= 2366.000 Y=	4471.000	Z=	22.20	0					
SOURCE : 13 CFS - processing	(external)	- backl	noe						
			FR	EQUENC	Y Hz_				
	31.5 63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	95.0 95. .0 .								
	76.9 76.	9 76.9	76.9	76.9	76.9	76.9	76.9		
BARRIER AIR ABSORPTION	.0 .	2 .7	2.3	6.1	11.8	20.2	.0 39.4		300.0
TEMP & WIND GROUND	-5.7 -3.	3 6.6	15.0	15.0	15.0	15.0	.0 11.7	.0 5.6	.0
TOTAL AWT .9	23.8 21.	3 10.9	.9	-3.0	-8.7	-17.0	-33.0	-93.5-	-100.0
SOURCE : 14 CFS - processing	(external)	- FEL							
			FR	EQUENC	Y Hz_				

31.5 63 125 250 500 1k 2k 4k 8k 16k

POWER LEVEL	94 0	100 0	100 0	106 0	98 0	101 0	98 0	92 0	86 N	0
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
BARRIER	.0	.0	.0	.0	.0	.0	. 0	.0	.0	.0
AIR ABSORPTION TEMP & WIND	.0	.2	. 0	2.3 .0	0.1	11.8	.0	39.5	106.2	300.0
GROUND	-5.7	-3.3	6.6	15.0						
TOTAL AWT 7.1	22.8	26.2	15.8	11.8	.0	-2.7	-14.1	-35.8-	-100.0-	-100.0
SOURCE : 15										
CFS - curing (int	cenral)	- FEL								
				FR	REQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY	84.0	90.0	90.0	96.0	88.0	91.0 .0	88.0	82.0	76.0 .0	.0
DISTANCE	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
BARRIER AIR ABSORPTION TEMP & WIND	. 0	. 0	.0	.0	.0	.0	.0	.0	.0	.0
TEMP & WIND	.0	.0	. 0	.0	.0	.0	.0	.0	.0	.0
GROUND	.0 -5.7	-3.3	6.8	15.0	15.0	15.0	15.0	12.0	6.0	. 2
TOTAL AWT -3.2	12.6	16.0	5.4	1.6	-10.3	-13.2	-24.8	-47.5	-100.0-	-100.0
SOURCE : 16 CFS - curing (int	cenral)	- con	veyor	belt /	motor	: 1				
			_	FR	REQUENC	CY Hz_				
	31.5	63			-			4k	8k	16k
POWER LEVEL										
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
BARRIER ATR ABSORPTION	.0	.0	.0	2 4	.0 6 3	12 3	20 9	.0	109 9	300 0
BARRIER AIR ABSORPTION TEMP & WIND	. 0	. 0	.0	.0	.0	.0	.0	.0	.0	.0
GROUND	-5.7	-3.2	6.9	15.0	15.0	15.0	15.0	12.0	6.0	. 2
TOTAL AWT -7.1	5.5	18.8	-4.8	-20.6	-26.5	-36.4	-48.1	-68.0-	-100.0-	-100.0
SOURCE : 17	enral)	- cons	vevor	helt /	motor	- 2				
SOURCE: 17 CFS - curing (int	cenral)	- con								
				FR	REQUENC	CY Hz_			01-	161-
CFS - curing (int	31.5	63	125	FR	REQUENC 500	CY Hz_	2k	4k		
CFS - curing (int	31.5 77.0 .0	63 93.0 .0	125 80.0 .0	FF 250 74.0	500 72.0	1k 68.0	2k 65.0 .0	4k 62.0 .0	58.0	
CFS - curing (int	31.5 77.0 .0	63 93.0 .0	125 80.0 .0	FF 250 74.0	500 72.0	1k 68.0	2k 65.0 .0	4k 62.0 .0	58.0	
CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9	63 93.0 .0 77.3 8.4	125 80.0 .0 77.3 10.5	250 74.0 .0 77.3 12.5	500 72.0 .0 77.3 14.8	1k 68.0 .0 77.3 17.8	2k 65.0 .0 77.3 20.8	4k 62.0 .0 77.3 23.8	58.0 .0 77.3 25.0	.0 .0 77.3 25.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	31.5 77.0 .0 77.3 6.9	63 93.0 .0 77.3 8.4 .2	125 80.0 .0 77.3 10.5	250 74.0 .0 77.3 12.5 2.4	500 72.0 .0 77.3 14.8 6.4	1k 68.0 .0 77.3 17.8 12.4	2k 65.0 .0 77.3 20.8 21.1	4k 62.0 .0 77.3 23.8 41.2	58.0 .0 77.3 25.0 111.1	.0 .0 77.3 25.0 300.0
CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9	63 93.0 .0 77.3 8.4 .2	125 80.0 .0 77.3 10.5 .7	74.0 .0 77.3 12.5 2.4	72.0 .0 77.3 14.8 6.4	1k 68.0 .0 77.3 17.8 12.4	2k 65.0 .0 77.3 20.8 21.1 .0	4k 62.0 .0 77.3 23.8 41.2 .0	58.0 .0 77.3 25.0 111.1	.0 .0 77.3 25.0 300.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 77.3 6.9 .0 .0	63 93.0 .0 77.3 8.4 .2 .0	125 80.0 .0 77.3 10.5 .7 .0 9.1	74.0 .0 77.3 12.5 2.4 .0	72.0 .0 77.3 14.8 6.4 .0 -4.6	1k 68.0 .0 77.3 17.8 12.4 .03	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1	58.0 .0 77.3 25.0 111.1 .0 -3.3	.0 .0 77.3 25.0 300.0 .0 -1.9
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	31.5 77.0 .0 77.3 6.9 .0 .0	63 93.0 .0 77.3 8.4 .2 .0	125 80.0 .0 77.3 10.5 .7 .0 9.1	74.0 .0 77.3 12.5 2.4 .0	72.0 .0 77.3 14.8 6.4 .0 -4.6	1k 68.0 .0 77.3 17.8 12.4 .03	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1	58.0 .0 77.3 25.0 111.1 .0 -3.3	.0 .0 77.3 25.0 300.0 .0 -1.9
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3	63 93.0 .0 77.3 8.4 .2 .0 .3	125 80.0 .0 77.3 10.5 .7 .0 9.1	74.0 .0 77.3 12.5 2.4 .0 .2	500 72.0 .0 77.3 14.8 6.4 .0 -4.6	1k 68.0 .0 77.3 17.8 12.4 .03	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1	58.0 .0 77.3 25.0 111.1 .0 -3.3	.0 .0 77.3 25.0 300.0 .0 -1.9
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3	63 93.0 .0 77.3 8.4 .2 .0 .3	125 80.0 .0 77.3 10.5 .7 .0 9.1	74.0 .0 77.3 12.5 2.4 .0 .2	500 72.0 .0 77.3 14.8 6.4 .0 -4.6	1k 68.0 .0 77.3 17.8 12.4 .03 -39.2	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1	58.0 .0 77.3 25.0 111.1 .0 -3.3	.0 .0 77.3 25.0 300.0 .0 -1.9
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9	63 93.0 .0 77.3 8.4 .2 .0 .3	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt /	500 72.0 .0 77.3 14.8 6.4 .0 -4.6 -21.8	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1	58.0 .0 77.3 25.0 111.1 .0 -3.3	.0 .0 77.3 25.0 300.0 -1.9
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18 CFS - curing (interpretation)	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral)	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8	125 80.0 .0 77.3 10.5 .0 9.1 -17.6 veyor	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt /	500 72.0 .0 77.3 14.8 6.4 .0 -4.6 -21.8 / motor	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 24 3	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3	58.0 .0 77.3 25.0 111.1 .0 -3.3	.0 .0 .0 77.3 25.0 300.0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral)	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt /	72.0 72.0 77.3 14.8 6.4 .0 -4.6 -21.8 / motor REQUENC 500 72.0	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3	58.0 .0 77.3 25.0 111.1 .0 -3.3 -100.0-	.0 .0 77.3 25.0 300.0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18 CFS - curing (interpretation)	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv	125 80.0 .0 77.3 10.5 .0 9.1 -17.6 veyor 125 80.0 .0 77.4	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt / FF 250 74.0 .0	72.0 .0 77.3 14.8 6.4 .0 -4.6 -21.8 (motor 500 72.0 .0	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 4k 62.0 .0 77.4	58.0 .0 77.3 25.0 111.1 .0 -3.3 -100.0-	.0 .0 .0 .0 .0 .0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 seenral) 31.5 77.0 .0 77.4 12.6	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt / FF 250 74.0 .0	72.0 .0 .0 .77.3 14.8 .6.4 .0 .4.6 -21.8 / motor 500 .0 .0 .77.4 24.0	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3	58.0 .0 77.3 25.0 111.1 .0 -3.3 -100.0-	.0 .0 .0 .0 .0 .0 .1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretails) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 seenral) 31.5 77.0 .0 77.4 12.6	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt / FF 250 74.0 .0	72.0 .0 .0 .77.3 14.8 .6.4 .0 .4.6 -21.8 / motor 500 .0 .0 .77.4 24.0	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3	58.0 .0 77.3 25.0 111.1 .0 -3.3 -100.0-	.0 .0 .0 .0 .0 .0 .1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0	74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt / FF 250 74.0 .0	72.0 .0 .0 .77.3 14.8 .6.4 .0 .4.6 -21.8 / motor 500 .0 .0 .77.4 24.0	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 4k 62.0 .0 77.4 25.0	58.0 .0 77.3 25.0 111.1 .0 -3.3 -100.0-	.0 .0 .0 .0 .0 .0 .1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 seenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .7 .0 10.9	FF 250 74.0 .0 .0 .2 .4 .0 .0 .2 .4 .0 .0 .77.4 .250 .77.4 .21.0 .2.4 .0 .2.8	72.0 .0 .0 .77.3 14.8 6.4 .0 -4.6 -21.8 / motor 500 72.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 4k 62.0 .0 77.4 25.0 41.5 .0 -2.6	58.0 .0 .0 .77.3 .25.0 .111.1 .0 .3.3 -100.0- .8k .58.0 .0 .77.4 .25.0 .111.8 .0 .2.7	.0 .0 .0 .0 .0 .0 .0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0 .5	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .7 .0 10.9 -26.9	FF 250 74.0 .0 .77.3 12.5 2.4 4 .0 .0 .2 .4 .1 .0 .0 .77.4 21.0 2.8 -29.6	72.0 72.0 77.3 14.8 6.4 .0 -4.6 -21.8 Motor 72.0 .0 77.4 24.0 6.4 .0 -3.7	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 4k 62.0 .0 77.4 25.0 41.5 .0 -2.6	58.0 .0 .0 .77.3 .25.0 .111.1 .0 .3.3 -100.0- .8k .58.0 .0 .77.4 .25.0 .111.8 .0 .2.7	.0 .0 .0 .0 .0 .0 .0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE: 18 CFS - curing (interpretation) POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -24.9	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0 .5	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .7 .0 10.9 -26.9	FF 250 74.0 .0 .2 .4 .0 .2 .5 .0 .7 .4 .0 .0 .0 .7 .4 .0 .0 .2 .8	72.0 .0 77.3 14.8 6.4 .0 -4.6 -21.8 7 motor 72.0 .0 77.4 24.0 6.4 .0 -3.7	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8 2k 65.0 .0 77.4 25.0 21.3 .0 -2.6	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 4k 62.0 .0 77.4 25.0 41.5 .0 -2.6	58.0 .0 .0 .77.3 .25.0 .111.1 .0 .3.3 -100.0- .8k .58.0 .0 .77.4 .25.0 .111.8 .0 .2.7	.0 .0 .0 .0 .0 .0 .0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0 .5	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .7 .0 10.9 -26.9	FF 250 74.0 .0 .77.3 12.5 2.4 4 .0 .0 .2 .4 .1 .0 .0 .77.4 21.0 2.8 -29.6	72.0 .0 77.3 14.8 6.4 .0 -4.6 -21.8 7 motor 72.0 .0 77.4 24.0 6.4 .0 -3.7	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8 2k 65.0 .0 77.4 25.0 21.3 .0 -2.6	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 4k 62.0 .0 77.4 25.0 41.5 .0 -2.6	58.0 .0 .0 .77.3 .25.0 .111.1 .0 .3.3 -100.0- .8k .58.0 .0 .77.4 .25.0 .111.8 .0 .2.7	.0 .0 .0 .0 .0 .0 .0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9 .0 -4.3 -2.9 seenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5 -8.5	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0 .5	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .7 .0 10.9 -26.9	FF 250 74.0 .0 .0 .2 .4 .0 .0 .2 .4 .0 .0 .0 .77.4 .250 .77.4 .0 .0 .2.8 .29.6 belt /	72.0 .0 77.3 14.8 6.4 .0 -4.6 -21.8 / motor 72.0 .0 77.4 24.0 6.4 .0 -3.7 -32.1	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7 -43.2	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8 2k 65.0 .0 77.4 25.0 21.3 .0 -2.6 -56.0	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 -78.3 -4k 62.0 .0 77.4 25.0 41.5 .0 -2.6 -79.2	58.0 .0 .77.3 25.0 111.1 .0 .3.3 -100.0-	.0 .0 .0 .77.3 25.0 300.0 .0 -1.9 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5 -8.5 cenral)	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0 .5 - conv	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .0 10.9 -26.9 veyor	FF 250 74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt / FF 250 74.0 .0 77.4 21.0 .0 2.8 -29.6 belt / FF 250	72.0 72.0 72.0 77.3 14.8 6.4 0.0 -4.6 72.0 72.0 72.0 72.0 77.4 24.0 6.4 .0 77.3	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7 -43.2	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8 2k 65.0 .0 77.4 25.0 21.3 .0 -2.6	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 -78.3 -4k 62.0 .0 77.4 25.0 41.5 .0 -2.6 -79.2	58.0 .0 .77.3 25.0 111.1 .0 .3.3 -100.0- 8k 58.0 .0 .0 .0 .111.8 .0 .0 .2.7	.0 .0 .0 .77.3 25.0 300.0 -1.9 -100.0 16k .0 .0 .77.4 25.0 300.0 -2.1 -100.0
POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -17.6 SOURCE : 18 CFS - curing (interpretation of the control of the	31.5 77.0 .0 77.3 6.9 .0 .0 -4.3 -2.9 cenral) 31.5 77.0 .0 77.4 12.6 .0 .0 -4.5 -8.5 cenral)	63 93.0 .0 77.3 8.4 .2 .0 .3 6.8 - conv 63 93.0 .0 77.4 15.0 .2 .0 .0 .5 - conv	125 80.0 .0 77.3 10.5 .7 .0 9.1 -17.6 veyor 125 80.0 .0 77.4 18.0 .0 10.9 -26.9 veyor	FF 250 74.0 .0 77.3 12.5 2.4 .0 .2 -18.4 belt / FF 250 74.0 .0 77.4 21.0 .0 2.8 -29.6 belt / FF 250	72.0 72.0 72.0 77.3 14.8 6.4 0.0 -4.6 72.0 72.0 72.0 72.0 77.4 24.0 6.4 .0 77.3	1k 68.0 .0 77.3 17.8 12.4 .0 .3 -39.2 1k 68.0 .0 77.4 25.0 12.5 .0 -3.7 -43.2	2k 65.0 .0 77.3 20.8 21.1 .0 -3.4 -50.8 2k 65.0 .0 77.4 25.0 21.3 .0 -2.6	4k 62.0 .0 77.3 23.8 41.2 .0 -2.1 -78.3 -78.3 -4k 62.0 .0 77.4 25.0 41.5 .0 -2.6 -79.2	58.0 .0 .77.3 25.0 111.1 .0 .3.3 -100.0- 8k 58.0 .0 .0 .0 .111.8 .0 .0 .2.7	.0 .0 .0 .77.3 25.0 300.0 -1.9 -100.0 16k .0 .0 .77.4 25.0 300.0 -2.1 -100.0

DISTANCE	77.3	77 3	77 3	77 3	77 3	77 3	77 3	77 3	77 3	77 3
	12.8	15.8	18.8	21.8	24.8	25.0	25.0	25.0	25.0	25.0
BARRIER AIR ABSORPTION TEMP & WIND	. 0	. 2	. 7	2.4	6.4	12.5 .0	21.2	41.4	111.7	300.0
GROUND	-4.5					-4.5				
TOTAL AWT -25.7	-8.7	2	-28.2	-31.2	-33.4	-42.3	-56.3	-79.7	-100.0-	-100.0
SOURCE : 20										
CFS - curing (in) - coi	nveyor	belt ,	/ moto	r 5				
				171	DECLIENT	av 11-				
				F1	KEOOFING	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	77 0	02.0	90 0	74 0	72.0	60 0	65 0	62.0	E0 0	0
DIRECTIVITY	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
DISTANCE BARRIER	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
BARRIER AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.4	6.3	12.3	20.9	40.8	110.0	300.0
TEMP & WIND	.0	.0	.0	.0	.0	.0	.0	.0	.0	. 0
GROUND	-5.7	-3.2	6.9	15.0	15.0	15.0	15.0	11.7	5.6	1
TOTAL AWT -7.1	5.5	18.8	-4.8	-20.6	-26.5	-36.5	-48.1	-67.8	-100.0-	-100.0
SOURCE : 21 CFS - curing (in) - coi	nvevor	belt	/ motor	r 6				
010 0011119 (11				2010		- 0				
				FI	REQUEN	CY Hz_				
	31 5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL	77.0	93.0	80.0	74.0	72.0	68.0	65.0	62.0	58.0	. 0
DIRECTIVITY										
DISTANCE	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
BARRIER	. 0	.0	. 0	.0	.0	.0	.0	.0	.0	.0
AIR ABSORPTION TEMP & WIND	. 0	. 2	. /	2.3	.0	12.0			.0	
GROUND						15.0				
TOTAL AWT -6.9		10 1		20.2	26.2	26.0	47 E	66.0	100 0	100.0
IOIAL AWI -0.3	5.0	19.1	-4.4	-20.3	-20.2	-30.0	-47.5	-00.9	-100.0-	-100.0
SOURCE : 22										
CFS - processing	(exte	rnal) ·	- RTT ı	nanv						
				FI	REQUEN	CY Hz_				
										1.61
	31.5	63				CY Hz_		4k	8k	16k
POWER LEVEL	111.0	114.0	125 103.0	250 104.0	500 103.0	1k 100.0	2k 98.0	94.0	88.0	.0
POWER LEVEL DIRECTIVITY	111.0	114.0	125 103.0	250 104.0	500 103.0	1k	2k 98.0	94.0	88.0	.0
DIRECTIVITY	111.0	114.0	125 103.0 .0	250 104.0 .0	500 103.0 .0	1k 100.0 .0	2k 98.0 .0	94.0	88.0	.0
DIRECTIVITY DISTANCE BARRIER	111.0	114.0	125 103.0 .0	250 104.0 .0	500 103.0 .0	1k 100.0 .0	2k 98.0 .0	94.0	88.0	.0 .0 76.8 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	111.0 .0 76.8 .0	114.0 .0 76.8 .0	125 103.0 .0 76.8 .0	250 104.0 .0 76.8 .0	500 103.0 .0 76.8 .0	1k 100.0 .0 76.8 .0 11.8	2k 98.0 .0 76.8 .0	94.0 .0 76.8 .0	88.0 .0 76.8 .0	.0 .0 76.8 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	111.0 .0 76.8 .0 .0	114.0 .0 76.8 .0 .2	125 103.0 .0 76.8 .0 .7	250 104.0 .0 76.8 .0 2.3	500 103.0 .0 76.8 .0 6.1	1k 100.0 .0 76.8 .0 11.8	2k 98.0 .0 76.8 .0 20.1	94.0 .0 76.8 .0 39.3	88.0 .0 76.8 .0 105.7	.0 .0 76.8 .0 300.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	111.0 .0 76.8 .0 .0	114.0 .0 76.8 .0 .2 .0	125 103.0 .0 76.8 .0 .7 .0 6.5	250 104.0 .0 76.8 .0 2.3 .0 15.0	500 103.0 .0 76.8 .0 6.1 .0 15.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	111.0 .0 76.8 .0 .0	114.0 .0 76.8 .0 .2 .0	125 103.0 .0 76.8 .0 .7 .0 6.5	250 104.0 .0 76.8 .0 2.3 .0 15.0	500 103.0 .0 76.8 .0 6.1 .0 15.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	111.0 .0 76.8 .0 .0 .0 -5.7	114.0 .0 76.8 .0 .2 .0	125 103.0 .0 76.8 .0 .7 .0 6.5	250 104.0 .0 76.8 .0 2.3 .0 15.0	500 103.0 .0 76.8 .0 6.1 .0 15.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1	111.0 .0 76.8 .0 .0 .0 -5.7	114.0 .0 76.8 .0 .2 .0 -3.3	125 103.0 .0 76.8 .0 .7 .0 6.5	250 104.0 .0 76.8 .0 2.3 .0 15.0	500 103.0 .0 76.8 .0 6.1 .0 15.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23	111.0 .0 76.8 .0 .0 .0 -5.7	114.0 .0 76.8 .0 .2 .0 -3.3	125 103.0 .0 76.8 .0 .7 .0 6.5	250 104.0 .0 76.8 .0 2.3 .0 15.0 9.9	500 103.0 .0 76.8 .0 6.1 .0 15.0 5.1	1k 100.0 .0 76.8 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0 11.1	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23	111.0 .0 76.8 .0 .0 .0 .0 -5.7	114.0 .0 76.8 .0 .2 .0 -3.3 40.3	125 103.0 .0 76.8 .0 .7 .0 6.5 18.9	250 104.0 .0 76.8 .0 2.3 .0 15.0 9.9 revers:	500 103.0 .0 76.8 .0 6.1 .0 15.0 5.1	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0 11.1	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0 6
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23	111.0 .0 76.8 .0 .0 .0 .0 -5.7	114.0 .0 76.8 .0 .2 .0 -3.3 40.3	125 103.0 .0 76.8 .0 .7 .0 6.5 18.9	250 104.0 .0 76.8 .0 2.3 .0 15.0 9.9 revers:	500 103.0 .0 76.8 .0 6.1 .0 15.0 5.1	1k 100.0 .0 76.8 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0	94.0 .0 76.8 .0 39.3 .0 11.1	88.0 .0 76.8 .0 105.7 .0 5.1	.0 .0 76.8 .0 300.0 .0 6
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 -5.7 39.8	114.0 .0 76.8 .0 .2 .0 -3.3 40.3	125 103.0 76.8 .0 .7 .0 6.5 18.9 - RTT:	250 104.0 .0 76.8 .0 2.3 .0 15.0 9.9 revers:FI	500 103.0 .0 76.8 .0 6.1 .0 15.0 5.1	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6	.0 .0 76.8 .0 300.0 .0 6
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 -5.7 39.8 (exter	114.0 .0 76.8 .0 .2 .0 -3.3 40.3	125 103.0 .0 76.8 .0 .7 .0 6.5 18.9 - RTT:	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers:FI 250 79.0	500 103.0 .0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 76.8 .0 .2 .0 -3.3 40.3	125 103.0 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers:FI 250 79.0 .0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 Ingredience Sequence Sequenc	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 .0 .5.7 39.8 (exter	114.0 .0 76.8 .0 .2 .0 -3.3 40.3 75.0 .0	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6	.0 .0 .0 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	111.0 .0 76.8 .0 .0 .0 .0 .5.7 39.8 (exterior) 31.5 57.0 .0 76.9 .0	114.0 .0 76.8 .0 .2 .0 .3.3 40.3 40.3 75.0 .0	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6-	.0 .0 76.8 .0 300.0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 76.8 .0 .2 .0 .3.3 40.3 40.3 75.0 .0 76.9 .0 .0 .0	125 103.0 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: F1 250 79.0 .0 76.9 .0 2.3 .0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 76.8 .0 .2 .0 .3.3 40.3 40.3 75.0 .0 76.9 .0 .0 .0	125 103.0 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: F1 250 79.0 .0 76.9 .0 2.3 .0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE : 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	111.0 .0 76.8 .0 .0 .0 .0 .5.7 39.8 (exter 31.5 57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .76.8 .0 .2 .0 .0 .3.3 .40.3 .63 .75.0 .0 .0 .2 .0 .0 .2 .0 .0 .2 .3 .3	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 2.3 .0 15.0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0 15.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6- 8k 77.0 .0 106.0 .0 5.3	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8	111.0 .0 76.8 .0 .0 .0 .0 -5.7 39.8 (exter 31.5 57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .76.8 .0 .2 .0 .0 .3.3 .40.3 .63 .75.0 .0 .0 .2 .0 .0 .2 .0 .0 .2 .3 .3	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 2.3 .0 15.0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0 15.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6- 8k 77.0 .0 106.0 .0 5.3	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND	111.0 .0 76.8 .0 .0 .0 .0 .0 -5.7 39.8 (exter 31.5 57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 76.8 .0 .2 .0 -3.3 40.3 75.0 .0 76.9 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6 -9.1	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.1	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0 15.0 -9.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6- 8k 77.0 .0 106.0 .0 5.3	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24	111.0 .0 76.8 .0 .0 .0 .0 .0 -5.7 39.8 (exter 31.5 57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .2 .0 .0 .0 .1 .3 .3	125 103.0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 6.6 -9.1	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.0 -15.1 collect	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0 15.0 -9.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0 15.0 -10.7	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6- 8k 77.0 .0 106.0 .0 5.3	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24	111.0 .0 76.8 .0 .0 .0 .0 .0 -5.7 39.8 (exter 31.5 57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .2 .0 .0 .0 .1 .3 .3	125 103.0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 6.6 -9.1	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.0 -15.1 collect	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0 15.0 -9.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0 15.0	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6- 8k 77.0 .0 106.0 .0 5.3	.0 .0 76.8 .0 300.0 .0 6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24	111.0 .0 76.8 .0 .0 .0 .0 .0 .5.7 39.8 (external) 57.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .76.8 .0 .2 .0 .0 .3.3 .40.3 .75.0 .0 .0 .2 .0 .0 .3.3 .1.3	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6 -9.1	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.0 -15.1 collec	500 103.0 .0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 76.9 .0 6.1 .0 15.0 -9.0 REQUENC	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0 15.0 -10.7	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0 11.4	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6-	.0 .0 .0 .0 .0 .0 .0 .0 .100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 76.8 .0 .2 .0 -3.3 40.3 75.0 .0 76.9 .0 .2 .0 -3.3 1.3	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6 -9.1 - dust	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 2.3 .0 15.1 collect FI 250	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ting REQUENC 76.9 .0 15.0 -9.0 REQUENC 500	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0 11.4 -40.7	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6 8k 77.0 .0 106.0 .0 5.3	.0 .0 .0 .0 .0 .0 .0 .6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .76.8 .0 .2 .0 .0 .3.3 .40.3 .63 .75.0 .0 .2 .0 .0 .3.3 .1.3 .63 .102.0	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6 -9.1 - dust 125 106.0	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 2.3 .0 15.0 -15.1 collect FI 250 109.0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 49.0 6.1 .0 15.0 76.9 .0 15.0 76.9 .0 6.1 .0 15.0 108.0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0 11.4 -40.7	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6 8k 77.0 .0 76.9 .0 5.3 -100.0	.0 .0 .0 .0 .0 .0 .0 .0 .100.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .0 .0 .0 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT : 125 75.0 .0 76.9 .7 .0 6.6 -9.1 - dust 125 106.0 .0	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.0 -15.1 collect FI 250 109.0 .0	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 89.0 .0 76.9 .0 6.1 .0 15.0 -9.0 ctor / REQUENC 500 108.0 .0	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0 11.4 -40.7	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6 8k 77.0 .0 106.0 5.3	.0 .0 .0 .0 .0 .0 .0 .6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE POWER LEVEL DIRECTIVITY DISTANCE	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .76.8 .0 .2 .0 .0 .3.3	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6 -9.1 - dust 125 106.0 .0 76.9	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.1 collect FI 250 109.0 .0 76.9	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 49.0 .0 15.0 76.9 .0 15.0 108.0 .0 76.9 .0 76.9 .0 76.9 .0 76.9 .0 76.9	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0 76.9 .1 that contains the conta	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0 11.4 -40.7	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6 8k 77.0 .0 106.0 .0 5.3 -100.0	.0 .0 .0 .0 .0 .0 .0 .0 .6 -100.0
DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT 15.1 SOURCE: 23 CFS - processing POWER LEVEL DIRECTIVITY DISTANCE BARRIER AIR ABSORPTION TEMP & WIND GROUND TOTAL AWT -7.8 SOURCE: 24 CFS - processing	111.0 .0 76.8 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	114.0 .0 .0 .76.8 .0 .2 .0 .0 .3.3	125 103.0 76.8 .0 76.8 .0 .7 .0 6.5 18.9 - RTT: 125 75.0 .0 76.9 .0 .7 .0 6.6 -9.1 - dust 125 106.0 .0 76.9	250 104.0 76.8 .0 2.3 .0 15.0 9.9 revers: FI 250 79.0 .0 76.9 .0 15.1 collect FI 250 109.0 .0 76.9	500 103.0 76.8 .0 6.1 .0 15.0 5.1 ing REQUENC 500 49.0 .0 15.0 76.9 .0 15.0 108.0 .0 76.9 .0 76.9 .0 76.9 .0 76.9 .0 76.9	1k 100.0 .0 76.8 .0 11.8 .0 15.0 -3.6 CY Hz 1k 93.0 .0 76.9 .0 11.8 .0 76.9 .1 that contains the conta	2k 98.0 .0 76.8 .0 20.1 .0 15.0 -13.9 2k 91.0 .0 76.9 .0 20.2 .0 15.0 -21.0	94.0 .0 76.8 .0 39.3 .0 11.1 -33.3 4k 87.0 .0 76.9 .0 39.4 .0 11.4 -40.7	88.0 .0 76.8 .0 105.7 .0 5.1 -99.6 8k 77.0 .0 106.0 .0 5.3 -100.0	.0 .0 .0 .0 .0 .0 .0 .0 .6 -100.0

TEMP & WIND GROUND	.0 -5.7	.0 -3.3	.0 6.6	.0 15.0	.0 15.0	.0 15.0	.0 15.0	.0 11.7	.0 5.6	.0
TOTAL AWT 11.8	28.8	28.3	21.9	14.9	10.1	-2.7	-18.0	-39.0	-100.0-	-100.0
SOURCE : 25 CFS - processing	(exte	rnal) -	forkl	lift						
				FF	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
DISTANCE	77.0	77.0	77.0	77.0						
BARRIER AIR ABSORPTION	. 0	.0	. 0	.0		.0 11.9	.0 20.4		.0 107.1	
AIR ABSORPTION TEMP & WIND	.0	.0	. 0	.0	.0	.0			.0	
GROUND	-5.7	-3.3	6.6	15.0	15.0	15.0	15.0	11.4	5.3	3
TOTAL AWT 3.7	29.7	26.2	14.7	2.7	-5.1	-10.9	-21.3	-40.2	-100.0-	-100.0
SOURCE : 26 CFS - processing	(exte	rnal) -	aggre	egate u	ınload					
				FF	P ← CITENIC	TV UF				
					~					
		63								
	. 0	.0	. 0	. 0	. 0	. 0	. 0	.0	. 0	. 0
DISTANCE BARRIER AIR ABSORPTION TEMP & WIND	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
BARRIER	. 0	.0	.0	.0	. 0 6 1	11 8	20 1	.0	105.5	300.0
									.0	.0
GROUND	-5.7	-3.3	6.5	15.0	15.0	15.0	15.0	11.4	5.3	3
TOTAL AWT 12.6	38.8	37.3	18.0	5.9	3.1	. 4	-10.9	-30.5	-82.7	-100.0
SOURCE : 27 CFS - processing	(exte	rnal) -	silo	vent 1						
				FF	EQUENC	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY										
DISTANCE		76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
BARRIER	.0			. 0			.0		.0	
AIR ABSORPTION TEMP & WIND	.0	.2	.7	2.3	6.1	11.8			105.6	
GROUND		-1.2	10.0	13.0						
TOTAL AWT3	12.0	6.2	-1.5	-3.1	.6	-5.6	-17.6	-46.5	-100.0-	-100.0
SOURCE : 28 CFS - processing	(exte	rnal) -	silo	vent 2	2					
				FF	EQUEN	CY Hz_				
	31.5	63	125	250	500	1k	2k	4k	8k	16k
POWER LEVEL DIRECTIVITY		82.0								
DISTANCE		T.C. 0	76.8	76 8	76 0	76.8	76.8	76.8	76.8	76 8
	76.8	76.8	,	,	70.0	,	,	,	,	
BARRIER	76.8 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0
AIR ABSORPTION	76.8 .0 .0	.0	.0	.0 2.3	.0 6.1	.0	.0	39.3	.0	300.0
	. 0	.0 .2 .0 -1.2	. 0	. 0	.0	. 0	. 0	.0	. 0	. 0

TOTAL AWT -.2 12.0 6.2 -1.5 -3.1 .6 -5.6 -17.6 -46.5-100.0-100.0

TOTAL AWT 18.9 42.9 42.6 25.8 18.1 13.0 5.5 -6.0 -26.1 -81.4 -88.0

Appendix D

Sample ENM ranking file

X= 647.0 Y= 3483.0 Z= 46.2

SOURCE TITLE	dB(A)
24 CFS - processing (external) - dust collector / fan 26 CFS - processing (external) - aggregate unload 22 CFS - processing (external) - RTT manv 23 CFS - processing (external) - RTT reversing 27 CFS - processing (external) - silo vent 1	23.9 22.6 22.4 11.0 7.9
28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 13 CFS - processing (external) - backhoe 15 CFS - curing (intenral) - FEL	7.9 1.1 -3.6 -7.1 -8.5
19 CFS - curing (intenral) - conveyor belt / motor 4 21 CFS - curing (intenral) - conveyor belt / motor 6 18 CFS - curing (intenral) - conveyor belt / motor 3 20 CFS - curing (intenral) - conveyor belt / motor 5 17 CFS - curing (intenral) - conveyor belt / motor 2	-20.9 -21.9 -22.1 -22.6 -24.4
16 CFS - curing (intenral) - conveyor belt / motor 1	-24.6
TOTAL	28.0
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION K= 510.0 Y= 3539.0 Z= 53.2	

SOURCE TITLE	dB(A)
24 CFS - processing (external) - dust collector / fan	23.9
22 CFS - processing (external) - RTT manv	20.2
26 CFS - processing (external) - aggregate unload	18.5
23 CFS - processing (external) - RTT reversing 27 CFS - processing (external) - silo vent 1	6.4 3.7
27 CFS - processing (external) - silo vent 1	3.7
28 CFS - processing (external) - silo vent 2	3.7
14 CFS - processing (external) - FEL	.3
25 CFS - processing (external) - forklift	-4.3
13 CFS - processing (external) - backhoe	-8.1
15 CFS - curing (intenral) - FEL	-9.3
19 CFS - curing (intenral) - conveyor belt / motor 4	-21.7
21 CFS - curing (intenral) - conveyor belt / motor 6	-22.8
18 CFS - curing (intenral) - conveyor belt / motor 3	-22.9
20 CFS - curing (intenral) - conveyor belt / motor 5	-23.4
17 CFS - curing (intenral) - conveyor belt / motor 2	-25.3
16 CFS - curing (intenral) - conveyor belt / motor 1	-25.5
TOTAL	26.3

X= 827.0 Y= 3006.0 Z= 22.2

TOTAL

OURCE TITLE	dB(A)
22 CFS - processing (external) - RTT manv	19.7
26 CFS - processing (external) - aggregate unload	16.2
24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1	11.3 6.5
28 CFS - processing (external) - silo vent 2	6.5
14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift	. 7
23 CFS - processing (external) - RTT reversing	-2.7
13 CFS - processing (external) - backhoe	-4.8
15 CFS - curing (intenral) - FEL	-8.9
18 CFS - curing (intenral) - conveyor belt / motor 3 19 CFS - curing (intenral) - conveyor belt / motor 4	-16.7 -18.0
21 CFS - curing (internal) - conveyor belt / motor 6	-18.8
20 CFS - curing (intenral) - conveyor belt / motor 5	-19.4
17 CFS - curing (intenral) - conveyor belt / motor 2	-21.2
16 CFS - curing (intenral) - conveyor belt / motor 1	-21.4
TOTAL PROGRAM ENM SOURCE RANKING	22.1
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION	22.1
PROGRAM ENM SOURCE RANKING	22.1
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION	22.1 dB(A)
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE	dB(A)
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT many	dB(A)
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE	dB(A) 18.6 15.1 10.1
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1	dB(A) 18.6 15.1 10.1 4.5
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan	dB(A) 18.6 15.1 10.1
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1	dB(A) 18.6 15.1 10.1 4.5
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift	dB(A) 18.6 15.1 10.1 4.5 4.5
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 13 CFS - processing (external) - backhoe	dB(A) 18.6 15.1 10.1 4.5 4.569 -6.2
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift	dB(A) 18.6 15.1 10.1 4.5 4.5
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 13 CFS - processing (external) - backhoe 23 CFS - processing (external) - RTT reversing 15 CFS - curing (intenral) - FEL	dB(A) 18.6 15.1 10.1 4.5 4.5 69 -6.2 -8.2 -10.3
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 13 CFS - processing (external) - backhoe 23 CFS - processing (external) - RTT reversing 15 CFS - curing (intenral) - FEL 18 CFS - curing (intenral) - conveyor belt / motor 3 19 CFS - curing (intenral) - conveyor belt / motor 4	dB(A) 18.6 15.1 10.1 4.5 4.5 69 -6.2 -8.2 -10.3
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - backhoe 23 CFS - processing (external) - RTT reversing 15 CFS - curing (intenral) - FEL 18 CFS - curing (intenral) - conveyor belt / motor 3 19 CFS - curing (intenral) - conveyor belt / motor 4 21 CFS - curing (intenral) - conveyor belt / motor 6	dB(A) 18.6 15.1 10.1 4.5 4.5 69 -6.2 -8.2 -10.3
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION = 661.0 Y= 2957.0 Z= 22.2 OURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 13 CFS - processing (external) - backhoe 23 CFS - processing (external) - RTT reversing 15 CFS - curing (intenral) - FEL 18 CFS - curing (intenral) - conveyor belt / motor 3 19 CFS - curing (intenral) - conveyor belt / motor 4	dB(A) 18.6 15.1 10.1 4.5 4.5 69 -6.2 -8.2 -10.3

20.9

X= 2568.0 Y= 556.0 Z= 61.2

SOURCE TITLE	dB(A)
22 CFS - processing (external) - RTT manv 14 CFS - processing (external) - FEL 13 CFS - processing (external) - backhoe 25 CFS - processing (external) - forklift 15 CFS - curing (intenral) - FEL	18.3 18.1 10.8 10.3 8.8
24 CFS - processing (external) - dust collector / fan 23 CFS - processing (external) - RTT reversing 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 26 CFS - processing (external) - aggregate unload	7.0 3.9 .9 .8 -2.3
19 CFS - curing (intenral) - conveyor belt / motor 4 18 CFS - curing (intenral) - conveyor belt / motor 3 17 CFS - curing (intenral) - conveyor belt / motor 2 16 CFS - curing (intenral) - conveyor belt / motor 1 21 CFS - curing (intenral) - conveyor belt / motor 6	-10.1 -10.1 -10.2 -10.3 -22.5
20 CFS - curing (intenral) - conveyor belt / motor 5	-22.8
TOTAL	22.4

PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION

X= 2964.0 Y= 577.0 Z= 51.2

SOURCE TITLE	dB(A)
14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 22 CFS - processing (external) - RTT manv 13 CFS - processing (external) - backhoe 15 CFS - curing (intenral) - FEL	17.5 9.5 9.1 9.1 7.8
24 CFS - processing (external) - dust collector / fan 23 CFS - processing (external) - RTT reversing 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 26 CFS - processing (external) - aggregate unload	5.3 2.9 1.2 1.1 -2.5
18 CFS - curing (intenral) - conveyor belt / motor 3 19 CFS - curing (intenral) - conveyor belt / motor 4 17 CFS - curing (intenral) - conveyor belt / motor 2 16 CFS - curing (intenral) - conveyor belt / motor 1 21 CFS - curing (intenral) - conveyor belt / motor 6	-10.6 -10.7 -10.7 -10.8 -24.4
20 CFS - curing (intenral) - conveyor belt / motor 5	-24.7
TOTAL	19.9

PROGRAM ENM SOURCE RANKING

SINGLE POINT CALCULATION

X= 3712.0 Y= 1349.0 Z= 22.2

SOURCE T	TITLE	dB(A)
22 C 14 C 25 C	CFS - processing (external) - aggregate unload CFS - processing (external) - RTT manv CFS - processing (external) - FEL CFS - processing (external) - forklift CFS - processing (external) - dust collector / fan	12.5 8.9 7.4 5.3 4.0
27 (15 (13 (CFS - processing (external) - silo vent 2 CFS - processing (external) - silo vent 1 CFS - curing (internal) - FEL CFS - processing (external) - backhoe CFS - curing (internal) - conveyor belt / motor 3	2.9 2.7 2.6 1.2 -6.5
23 C 17 C 16 C	CFS - curing (intenral) - conveyor belt / motor 4 CFS - processing (external) - RTT reversing CFS - curing (intenral) - conveyor belt / motor 2 CFS - curing (intenral) - conveyor belt / motor 1 CFS - curing (intenral) - conveyor belt / motor 6	-6.5 -6.6 -11.9 -12.0 -24.1
20 (CFS - curing (intenral) - conveyor belt / motor 5	-24.3
	TOTAL	16.5

PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION

X= 3827.0 Y= 1335.0 Z= 31.2

dB(A)	URCE TITLE
21.6 19.2	26 CFS - processing (external) - aggregate unload 14 CFS - processing (external) - FEL
13.9	13 CFS - processing (external) - backhoe
10.4	23 CFS - processing (external) - RTT reversing
8.5	25 CFS - processing (external) - forklift
8.4	22 CFS - processing (external) - RTT manv
5.5	15 CFS - curing (intenral) - FEL
4.5	24 CFS - processing (external) - dust collector / fan
1.7	27 CFS - processing (external) - silo vent 1
1.7	28 CFS - processing (external) - silo vent 2
-7.9	18 CFS - curing (intenral) - conveyor belt / motor 3
-8.0	19 CFS - curing (intenral) - conveyor belt / motor 4
-11.2	17 CFS - curing (intenral) - conveyor belt / motor 2
-11.3	16 CFS - curing (intenral) - conveyor belt / motor 1
-25.1	21 CFS - curing (intenral) - conveyor belt / motor 6
-25.3	20 CFS - curing (intenral) - conveyor belt / motor 5
24.6	TOTAL

SOURCE TITLE	dB(A)
26 CFS - processing (external) - aggregate unload	17.0
14 CFS - processing (external) - FEL 22 CFS - processing (external) - RTT many	13.8
13 CFS - processing (external) - backhoe	8.7
25 CFS - processing (external) - forklift	7.2
00.000	
23 CFS - processing (external) - RTT reversing 15 CFS - curing (intenral) - FEL	5.5 4.9
28 CFS - processing (external) - silo vent 2	4.4
24 CFS - processing (external) - dust collector / fan	4.2
27 CFS - processing (external) - silo vent 1	1.6
17 CFS - curing (intenral) - conveyor belt / motor 2	-8.3
18 CFS - curing (intenral) - conveyor belt / motor 3	-11.8
16 CFS - curing (intenral) - conveyor belt / motor 1	-11.8
19 CFS - curing (intenral) - conveyor belt / motor 4	-11.9
21 CFS - curing (intenral) - conveyor belt / motor 6	-25.4
20 CFS - curing (intenral) - conveyor belt / motor 5	-25.6
TOTAL	20.4

X= 3948.0 Y= 2044.0 Z= 22.2

SOURCE TITLE	dB(A)
26 CFS - processing (external) - aggregate unload 22 CFS - processing (external) - RTT manv 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 24 CFS - processing (external) - dust collector / fan	13.2 10.7 8.1 4.6 4.4
27 CFS - processing (external) - silo vent 1 15 CFS - curing (intenral) - FEL 28 CFS - processing (external) - silo vent 2 13 CFS - processing (external) - backhoe 23 CFS - processing (external) - RTT reversing	3.5 3.4 2.1 2.0 -5.6
19 CFS - curing (intenral) - conveyor belt / motor 4 16 CFS - curing (intenral) - conveyor belt / motor 1 17 CFS - curing (intenral) - conveyor belt / motor 2 18 CFS - curing (intenral) - conveyor belt / motor 3 21 CFS - curing (intenral) - conveyor belt / motor 6	-11.5 -11.5 -11.5 -11.5 -23.8
20 CFS - curing (intenral) - conveyor belt / motor 5	-24.1
TOTAL	17.3

SOURCE TITLE 22 CFS - processing (external) - RTT manv 14.6 26 CFS - processing (external) - aggregate unload 14 CFS - processing (external) - FEL 13.1 8.0 24 CFS - processing (external) - dust collector / fan 25 CFS - processing (external) - forklift 4.5 4.4 15 CFS - curing (intenral) - FEL 3.1 28 CFS - processing (external) - silo vent 2 2.2 27 CFS - processing (external) - silo vent 1
13 CFS - processing (external) - backhoe
23 CFS - processing (external) - RTT reversing 2.1 -5.5 17 CFS - curing (intenral) - conveyor belt / motor 2 -11.9 16 CFS - curing (intenral) - conveyor belt / motor 1 -11.9 18 CFS - curing (intenral) - conveyor belt / motor 3
19 CFS - curing (intenral) - conveyor belt / motor 4 -12.0 -21.8 21 CFS - curing (intenral) - conveyor belt / motor 6 -23.9 20 CFS - curing (intenral) - conveyor belt / motor 5 -24.2 TOTAL 18.4

PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION

X= 3971.0 Y= 3280.0 Z= 22.2

SOURCE TITLE dB(A) 22 CFS - processing (external) - RTT manv 14.1 26 CFS - processing (external) - aggregate unload 14 CFS - processing (external) - FEL 12.4 7.2 24 CFS - processing (external) - dust collector / fan 25 CFS - processing (external) - forklift 3.9 3.6 15 CFS - curing (intenral) - FEL 1.7 13 CFS - processing (external) - backhoe 1.0 27 CFS - processing (external) - silo vent 1 1.0 28 CFS - processing (external) - silo vent 2 1.0 23 CFS - processing (external) - RTT reversing -6.7 16 CFS - curing (intenral) - conveyor belt / motor 1 -12.7 18 CFS - curing (intenral) - conveyor belt / motor 3 -12.8 17 CFS - curing (intenral) - conveyor belt / motor 2 19 CFS - curing (intenral) - conveyor belt / motor 4 -12.8 -23.8 21 CFS - curing (intenral) - conveyor belt / motor 6 -24.3 20 CFS - curing (intenral) - conveyor belt / motor 5 -24.7TOTAL 17.7

15	SOURCE TITLE	dB(A)
15 CFS - curing (intenral) - FEL	22 CFS - processing (external) - RTT manv 14 CFS - processing (external) - FEL 13 CFS - processing (external) - backhoe	17.5 15.3 14.4 9.2 7.5
18 CFS - curing (intenral) - conveyor belt / motor 3	15 CFS - curing (intenral) - FEL 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2	6.0 4.3 4.2 4.2 4.1
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION X= 3079.0 Y= 3574.0 Z= 22.2 SOURCE TITLE dB(A 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 17. 24 CFS - processing (external) - dust collector / fan 16. 14 CFS - processing (external) - FEL 25 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 8. 27 CFS - processing (external) - silo vent 1 8. 28 CFS - processing (external) - silo vent 2 8. 13 CFS - processing (external) - backhoe 6. 15 CFS - curing (intenral) - FEL 23 CFS - processing (external) - RTT reversing 16 CFS - curing (intenral) - conveyor belt / motor 1 17 CFS - curing (intenral) - conveyor belt / motor 2 2. CFS - curing (intenral) - conveyor belt / motor 6 2. CFS - curing (intenral) - conveyor belt / motor 6 2. CFS - curing (intenral) - conveyor belt / motor 6 2. CFS - curing (intenral) - conveyor belt / motor 6 2. CFS - curing (intenral) - conveyor belt / motor 6 2. CFS - curing (intenral) - conveyor belt / motor 5 2. CFS - curing (18 CFS - curing (intenral) - conveyor belt / motor 3 17 CFS - curing (intenral) - conveyor belt / motor 2 19 CFS - curing (intenral) - conveyor belt / motor 4	-12.5 -12.6 -12.6 -25.0 -25.6
SINGLE POINT CALCULATION X= 3079.0 Y= 3574.0 Z= 22.2 SOURCE TITLE 22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 17. 24 CFS - processing (external) - dust collector / fan 16. 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 8. 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 31 CFS - processing (external) - backhoe 6. 15 CFS - curing (intenral) - FEL 23 CFS - processing (external) - BTT reversing 16 CFS - curing (intenral) - Conveyor belt / motor 1 17 CFS - curing (intenral) - conveyor belt / motor 2 21 CFS - curing (intenral) - conveyor belt / motor 6 21 CFS - curing (intenral) - conveyor belt / motor 6 21 CFS - curing (intenral) - conveyor belt / motor 6 20 CFS - curing (intenral) - conveyor belt / motor 5 3 - 19.		21.6
26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 16. 14 CFS - processing (external) - FEL 25 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 31 CFS - processing (external) - backhoe 45 CFS - curing (intenral) - FEL 47 CFS - curing (intenral) - FEL 48 CFS - processing (external) - BTT reversing 18 CFS - curing (intenral) - conveyor belt / motor 1 49 CFS - curing (intenral) - conveyor belt / motor 2 40 CFS - curing (intenral) - conveyor belt / motor 6 40 CFS - curing (intenral) - conveyor belt / motor 6 40 CFS - curing (intenral) - conveyor belt / motor 6 40 CFS - curing (intenral) - conveyor belt / motor 5 40 CFS - curing (intenral) - conveyor belt / motor 5 41 CFS - curing (intenral) - conveyor belt / motor 5 41 CFS - curing (intenral) - conveyor belt / motor 5 42 CFS - curing (intenral) - conveyor belt / motor 5		dB(A)
15 CFS - curing (intenral) - FEL 23 CFS - processing (external) - RTT reversing . 16 CFS - curing (intenral) - conveyor belt / motor 1 17 CFS - curing (intenral) - conveyor belt / motor 2 21 CFS - curing (intenral) - conveyor belt / motor 6 20 CFS - curing (intenral) - conveyor belt / motor 5 -19.	26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 27 CFS - processing (external) - silo vent 1	18.1 17.0 16.3 12.2 8.2
21 CFS - curing (internal) - conveyor belt / motor 6 -19. 20 CFS - curing (internal) - conveyor belt / motor 5 -19.	15 CFS - curing (intenral) - FEL 23 CFS - processing (external) - RTT reversing 16 CFS - curing (intenral) - conveyor belt / motor 1	6.7 1.7 .5
19 CFS - curing (internal) - conveyor belt / motor 4 -21.	21 CFS - curing (intenral) - conveyor belt / motor 6 20 CFS - curing (intenral) - conveyor belt / motor 5 18 CFS - curing (intenral) - conveyor belt / motor 3	-8.5 -19.0 -19.5 -20.4

23.0

TOTAL

SOURCE TITLE	dB(A)
22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift	17.4 15.5 15.0 10.5
27 CFS - processing (external) - silo vent 1 28 CFS - processing (external) - silo vent 2 13 CFS - processing (external) - backhoe 15 CFS - curing (intenral) - FEL 23 CFS - processing (external) - RTT reversing	5.9 5.9 4.8 .1 -2.2
16 CFS - curing (intenral) - conveyor belt / motor 1 17 CFS - curing (intenral) - conveyor belt / motor 2 21 CFS - curing (intenral) - conveyor belt / motor 6 20 CFS - curing (intenral) - conveyor belt / motor 5 18 CFS - curing (intenral) - conveyor belt / motor 3	-4.7 -4.9 -17.4 -18.1 -22.1
19 CFS - curing (intenral) - conveyor belt / motor 4	-22.8
TOTAL	21.8
PROGRAM ENM SOURCE RANKING SINGLE POINT CALCULATION X= 2366.0 Y= 4471.0 Z= 22.2	
SOURCE TITLE	dB(A)
22 CFS - processing (external) - RTT manv	15.1

22 CFS - processing (external) - RTT manv 26 CFS - processing (external) - aggregate unload 24 CFS - processing (external) - dust collector / fan 14 CFS - processing (external) - FEL 25 CFS - processing (external) - forklift 12.6 11.8 7.1 3.7 13 CFS - processing (external) - backhoe .9 28 CFS - processing (external) - silo vent 2 27 CFS - processing (external) - silo vent 1 -.2 -.3 15 CFS - curing (internal) - FEL 21 CFS - curing (internal) - conveyor belt / motor 6 -3.2 -6.9 20 CFS - curing (intenral) - conveyor belt / motor 5 16 CFS - curing (intenral) - conveyor belt / motor 1 -7.1 -7.1 23 CFS - processing (external) - RTT reversing
17 CFS - curing (intenral) - conveyor belt / motor 2
18 CFS - curing (intenral) - conveyor belt / motor 3 -7.8 -17.6 -24.9 19 CFS - curing (intenral) - conveyor belt / motor 4 -25.7 TOTAL 18.9