Enclosure 2

MET 2.7-1, General Air Conformity Analysis NO_x and VOC Emissions from Construction Activities, Bell Bend Nuclear Power Plant, October 2011



Environment

Submitted to: PPL Bell Bend, LLC Submitted by: AECOM Chelmsford, MA Project No. 60136677 October 2011

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General Air Conformity Analysis NO_X and VOC Emissions from Construction Activities Bell Bend Nuclear Power Plant

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Report

1.0 Introduction

PPL Bell Bend, LLC is proposing to construct and operate a new nuclear power unit, the Bell Bend Nuclear Power Plant ("BBNPP") adjacent to the existing Susquehanna Steam Electric Station in Luzerne County, Salem Township, Pennsylvania. The new unit will have a net electric generation capacity of about 1,600 megawatts.

Pursuant to the General Conformity Requirements under 40 CFR 93.150 et seq, the Nuclear Regulatory Commission (NRC) as the lead federal agency is required to make a conformity determination with regard to the proposed construction and operation of BBNPP. The General Conformity Rule applies only in locations designated in 40 CFR Part 81 as maintenance or nonattainment areas for any criteria air pollutant. As shown in Figure 1-1, the BBNPP project site in Luzerne County, Pennsylvania is located within the Scranton-Wilkes Barre maintenance area for the 8-hour ambient ozone standard. As such, construction-related emissions of ozone precursors, i.e., oxides of nitrogen (NO_X) and volatile organic compounds (VOC) from both direct and indirect project-related emissions have been evaluated to determine if annual emissions of these pollutants during the years of construction are above the applicable tonnage thresholds for applicability of General Conformity requirements. The applicable de minimis thresholds are 100 tons per year of NO_X and 50 tons per year of VOC emissions per 40 CFR 93.153.

In accordance with the definition of indirect emissions in §93.153, only emissions "that are caused or initiated by the Federal action and originate in the same nonattainment or maintenance area but occur at a different time or place as the action" are included in the estimate of emissions for General Conformity purposes. As such, motor vehicle emissions outside of the Scranton-Wilkes Barre ozone maintenance area area are not included in this study.

Note that <u>operation</u> of BBNPP will not result in significant generation of NO_X emissions, or significant releases of VOCs. Typical sources of NO_X during operation of BBNPP will include vehicle operations (mobile sources) and periodic operation of diesel generators that are used to provide backup power (stationary sources). Emissions of NO_X and VOCs from BBNPP stationary source operations will be subject to restrictions imposed under the Plan Approval process for minor source permitting in Pennsylvania. Potential NO_X and VOC emissions from operations are projected to be below de minimis threshold values listed in 40 CFR 93.153(b). Mobile source emissions from operations were estimated by modeling the on-road emissions from commuting operational employees. Permitted emissions from the BBNPP stationary sources are expected to be less than 25 tpy of NO_X and VOC. Regardless of the quantity, operational emissions are specifically excluded from the requirements for a conformity determination per the exclusion found in 40 CFR 93.153(d) for major or minor new or modified stationary sources that require a permit under the new source review (NSR) program (Section 110(a)(2)(c) and Section 173 of the Clean Air Act) or the prevention of significant deterioration permitting program (Title I, part C of the Act). Stationary sources associated with the operation of BBNPP are expected to require permitting under the PADEP's minor source permitting program.

This report documents the NO_x and VOC emissions associated with the construction of BBNPP for purposes of determining applicability to the federal Clean Air Act General Conformity Rule. Direct emissions included vehicle emissions from non-road construction equipment and engine-driven construction support equipment. Indirect activities considered in this analysis included commercial vehicles used to deliver material, equipment and commodities and worker vehicles used for commuting to and from the plant construction site.

Report

1.1 Content of the Report

This report consists of four sections and two appendices.

Section 1 serves as an introduction to the need to provide a General Conformity Applicability Analysis.

Section 2 describes the methodology taken to provide the NRC with a breakout of safety-related emissions as defined under 10 CFR 50.

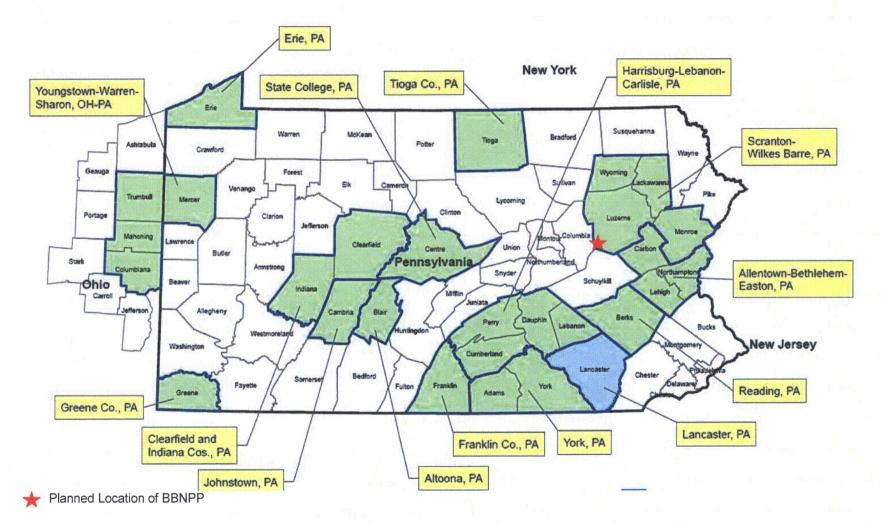
Section 3 presents the estimated direct and indirect NO_x and VOC emissions from construction of the project. This is presented for both total construction and as safety-related construction per 10 CFR 50.

Section 4 describes the emission estimation methodology for the non-road and the direct and indirect on-road mobile vehicles.

Technical references are provided in Section 5.

Appendix A contains a study prepared by Sargent & Lundy of estimated fuel consumption during construction of BBNPP. Appendix B contains emissions calculations which support Tables 3-1 and 3-2 of this analysis. It is broken up into five tables which show the calculation of emissions for non-road construction equipment (denoted as B-1a and B-1b), construction commuting (Table B-2), deliveries (Table B-3), and on-road on-site vehicles (Table B-4).

Figure 1-1 Pennsylvania 8-hour Ozone Maintenance Areas



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2.0 Emissions Evaluation Approach

2.1 Nuclear Regulatory Commission

Per Nuclear Regulatory Commission (NRC) regulations in 10 CFR Part 50, only certain portions of construction are considered to be under the NRC's jurisdiction. Sargent & Lundy ("S&L") PPL Bell Bend's current project/construction engineering firm prepared a study of estimated fuel usage during construction of BBNPP (Appendix A). Equipment in the fuel study includes an estimate of the fuel used to support the construction of safety-related systems, structures and components. The fuel study "was developed using preliminary site information and assumptions based on recent participation in new fossil construction, current planning for new nuclear construction and past nuclear construction experience".

The definition of construction under 10 CFR 50.2 reads as follows:

Construction or *constructing* means, for the purposes of §50.55(e), the analysis, design, manufacture, fabrication, quality assurance, placement, erection, installation, modification, inspection, or testing of a facility or activity which is subject to the regulations in this part and consulting services related to the facility or activity that are safety related.

Additional delineation of construction versus "pre-construction" activities is found under 10 CFR 50.10(a)(1) and (2) under limited work authorization. These are paraphrased below.

(1) Activities constituting construction are the driving of piles, subsurface preparation, placement of backfill, concrete, or permanent retaining walls within an excavation, installation of foundations, or in-place assembly, erection, fabrication, or testing, which are for: safety-related structures, systems, or components (SSCs)

(2) Construction does not include: Site exploration, preparation of a site for construction of a facility, including clearing of the site, grading, installation of drainage, erosion and other environmental mitigation measures, and construction of temporary roads and borrow areas; excavation; erection of support buildings building of service facilities

S&L has determined the portions of construction operations which would qualify as safety related. In determining the construction emissions as defined in 10 CFR Part 50.2 and Part 50.10, certain groups of activities were lumped together as safety related whereas other cases only have specific safety-related equipment/activities. Portions of construction activities (as indicated in Appendix A) which are indicated as safety related include:

- Structural Concrete (50% safety related)
- Switchyard (25%)
- Superstructure & Structural Steel (40%)
- Mechanical and Electrical Installation (50%)
- Soil Compaction (10%) for Powerblock

Total estimated fuel use for an activity was multiplied by the percentage of work estimated to be safety related to determine the quantity of fuel used to construct the safety-related portions of that activity. Emissions from equipment associated with safety-related activities are estimated separately from the overall emissions estimate. The safety-related construction emissions are found in Tables B-1b and Table B-4 in Appendix B.

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3.0 Emissions Estimates

The evaluation of the emissions associated with construction of the plant is the aggregate of non-road and on-road direct and indirect emissions. Non-road emissions were estimated using NONROAD 2008 model methodology and on-road emissions were estimated using EPA's MOVES model. AECOM incorporated these two models and applied them to determine the emissions.

3.1 Construction/Pre-Construction Emissions

Table 3-1 presents the total estimated NO_X and VOC emissions calculated for each year of construction within the Scranton-Wilkes Barre ozone maintenance area. As seen in Figure 1-1, BBNPP is located in the Scranton-Wilkes Barre 8-hour ozone maintenance area, but is also close to the Reading and Allentown-Bethlehem-Easton maintenance areas. Vehicle emissions from these other ozone maintenance areas are not included in the calculations as they fall outside of the definition of indirect emissions as noted in Section 1.0.

Annual NO_X and VOC emissions in all years of construction are projected to be under the 100 and 50 ton threshold for NO_X and VOC, respectively

Table 3-2 presents a breakout of safety-related construction emissions as defined under 10 CFR Part 50 – Domestic Licensing for Production and Utilization Facilities. Emissions reported in Table 3-2 are based on equipment types expected to perform safety-related construction activities as defined in 10 CFR 50. For example activities excluded are direct and indirect emissions from on-road motor vehicles (except concrete trucks) and site preparation equipment (except some soil compaction and concrete placement). The S&L Fuels Report provided the percentage of fuel utilization for each individual piece of equipment and the percentage utilization for safety-related activities.

As stated previously, the emissions in Table 3-2 represent the best estimate of construction emissions as defined by 10 CFR Part 50 and an estimate of associated fuel utilization. Based on the NRC definition of construction and estimated fuel utilization by S&L, Table 3-2 shows no exceedances of the conformity threshold for NO_x or VOC.

3.2 **Operational Emissions**

As noted in Section 1, the operational emissions from BBNPP stationary sources will require permitting under the PADEP's Plan Approval permitting process. As such, these emissions are specifically excluded from the requirements for a conformity determination per the exclusion found in 40 CFR 93.153(d).

The only other emissions of NO_x and VOC from BBNPP operations are indirect emissions associated with vehicular emissions from employee traffic. As stated in the preliminary traffic impact study prepared in September 2011 (Reference 1), 363 permanent employees are expected once BBNPP begins operations resulting in at most 363 additional round trips. This is similar to the round trips estimated for the construction workforce in Years 2 (423 round trips) and 7 (308 round trips) but well below the estimated 3,039 peak daily round trips during years 4 and 5 of construction.

Using similar assumptions as with the construction workforce, emissions from indirect operational employee commuting are expected to be only 3.5 tons/yr of NO_X and 1.1 tons/yr of VOC in the Scranton Wilkes-Barre maintenance area. These levels are well below the respective applicability thresholds of 100 tons/yr NO_X and 50 tons/yr VOC.

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			N	Эx					V	C		
	A11		Comm 8	On-site		Exceeds	All non		Comm. &	On-site on-road		Exceeds conformity
	All non- road	Workforce	Comm. & const.	on-road mobile	Total NOx	conformity threshold?		Workforce	const.	mobile	Total VOC	
	diesel	commuting	deliveries	engines	(Tons)	(Yes/No)	diesel	commuting	deliveries	engines	(Tons)	(Yes/No)
Year 1	65.9	1.0	1.4	1.6	69.9	No	4.62	0.3	0.1	0.2	5.3	No
Year 2	66.5	3.7	25.5	3.8	99.5	No	4.59	1.1	1.4	0.6	7.7	No
Year 3	37.4	11.4	27.2	5.7	81.6	No	2.44	3.1	1.5	0.9	7.9	No
Year 4	33.4	22.3	7.9	5.2	68.8	No	2.2	4.8	0.4	0.8	8.2	No
Year 5	15.9	22.3	4.3	3.7	46.2	No	1.0	4.8	0.2	0.6	6.7	No
Year 6	5.9	11.7	2.4	1.4	21.4	No	0.4	3.2	0.1	0.2	4.0	No
Year 7	7.3	2.3	2.3	1.2	13.2	No	0.6	0.6	0.1	0.2	1.5	No

Table 3-1 BBNPP Total Construction Emissions within the Scranton-Wilkes Barre Ozone Maintenance Area

Includes activities not defined as construction under 10 CFR 50.

Table 3-2 BBNPP 10 CFR 50 Construction Emissions within the Scranton-Wilkes Barre Ozone Maintenance Area

			NC)x					V	00		
	All non- road diesel	Workforce commuting	Comm. & const. deliveries	On-site on-road mobile engines	Safety Related NOx (Tons)	Exceeds conformity threshold? (Yes/No)		Workforce	Comm. & const. deliveries	On-site on-road mobile engines	Safety Related VOC (Tons)	Exceeds conformity threshold? (Yes/No)
Year 1	0.0	0	0	0	0.0	No	0.0	0	0	0	0.0	No
Year 2	1.72	0	0	0.8	2.5	No	0.1	0	0	0.1	0.2	No
Year 3	6.44	0	0	0.9	7.4	No	0.4	0	0	0.1	0.5	No
Year 4	12.00	0	0	0.7	12.7	No	0.8	0	0	0.1	0.9	No
Year 5	5.52	0	0	0.5	6.0	No	0.4	0	0	0.1	0.4	No
Year 6	1.93	0	0	0.2	2.1	No	0.1	0	0	0.0	0.2	No
Year 7	1.43	0	0	0.2	1.6	No	0.1	0	0	0.0	0.1	No

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4.0 Emission Estimation Methodology

Sargent and Lundy ("S&L"), PPL Bell Bend's current project/construction engineering firm, was responsible for developing an estimate of fuel-burning equipment (non-road and on-road) needed to construct the proposed BBNPP. S&L provided an equipment schedule with equipment sizes, estimated annual hours of operation, and estimated quantities of materials delivered. As previously mentioned in Section 2, this list was then used to develop a safety- related construction list of equipment. Emissions calculations based on this equipment along with indirect NO_X and VOC emissions are presented in Appendix B.

4.1 Emissions from Non-Road Equipment

Emissions from non-road equipment (mobile, portable, and stationary fuel-burning equipment) were estimated using EPA's NONROAD2008 model and methodology (References 2-5). S&L provided a study of fuel consumption from construction equipment engines with horsepower and annual hours of operation. AECOM developed a spreadsheet -based approach to estimate non-road engine emissions based on the NONROAD model guidance and NONROAD model data files. This allows the emissions estimates to be thoroughly checked and allows transparency to how emissions are developed.

Applicable engine tiers for this analysis were based on the estimated tiers as indicated in the S&L fuel study. No gasoline engines were assumed as part of the S&L study. The applicable SCC codes for equipment were chosen (based on engine duty and fuel type) from the list in Appendix A of Reference 4. This cross reference allowed AECOM to match equipment from S&L's list to the NONROAD data files which contain the steady state pollutant emission factors and load factors.

The equation involved in determining the non-road construction emissions is as follows (from Page 1 of Reference 4):

$$EF_{adi} = EFss * DF$$

EF_{adj} = Final emission factor used in model after adjustments to account for deterioration (g/hp-hr) EFss = NONROAD 2008 steady state emission factor (g/hp-hr)

DF = Deterioration factor

The deterioration factor (DF) is a function of the technology type and age of the engine.

The NONROAD methodology addresses the effects of deterioration in the engines by multiplying the steady state emission factor for each category of engine by deterioration factor (DF). The following equation (from p 19 of Reference 3) is used to calculate DF as a function of engine age

$DF = 1 + A * (Age \ factor)^b$	for Age Factor ≤ 1	Equation 2
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DF = 1 + A for Age Factor > 1

Where Age factor = fraction of median life expended = (cumulative hours * load factor) / median life at full load, in hours.

A = constants for a given pollutant / technology type

 $b \le 1$, for most engines or 0.5 for 2-stroke engines less than 25 Hp

Equation 1

Equation 3

Deterioration is capped at the end of an engine's median life (age factor = 1), under the assumption that an engine deteriorated to a point where any increased deterioration is offset by maintenance. For this analysis, all age factors were set to 1 ("fully deteriorated") in order to simplify the calculations.

Annual non-road emissions were estimated using the following equation from Page 1 of Reference 4

$$E_{Sta} = EF_{adj} * HP * Hours * Load Factor * \frac{Ton}{2000 \, lb} * \frac{lb}{453.6 \, g}$$
 Equation 4

 E_{Sta} = Annual stationary source emissions in tons EF_{adj} = Final adjusted emission factor (g/hp-hr) HP = Rated horsepower hp Hours = Annual operating hours of the equipment Load Factor = fraction of available rated power

This equation was used for each non-road engine. The Caterpillar 627G scraper is the only piece of construction equipment which uses a dual engine setup. It contains an additional engine in the rear of the body. For this piece of equipment, the calculation was carried out once for each separate engine.

The load factor is an adjustment included in the model to avoid grossly over counting emissions. It is the average fraction of the rated power of an engine that is expected to be actually used in annual operation. This factor takes into account idling, partial load operation, and transient operation. For instance, a 100 hp diesel powered crane has a load factor of 0.43 from the NONROAD data table based on the SCC code. This means that in normal operation, the crane is expected to use an average of 43 hp for every available 100 hp capacity. These factors are based on surveys of equipment users.

One final adjustment that is special to VOC is the conversion from total hydrocarbons (HC). The NONROAD model steady state emission factors are all in terms of HC. This is so the model has a common basis to output emissions in terms of VOC, total organic gasses (TOG), or non-methane hydrocarbons (NMHC). Reference 5 gives the conversion from HC to VOC as 1.053 for diesel engines.

4.2 On-Road Vehicles

Estimation of construction related motor vehicle emissions was calculated with EPA's MOVES Vehicle Emission Modeling Software (Reference 6). The MOVES model was made available by EPA in the Federal Register on March 2, 2010, and is considered to be the most accurate and up to date emission estimation model available for on-road vehicles. This model was chosen in accordance with §93.159(b)(1) which requires that the motor vehicle emissions estimate use the most current version of the motor vehicle emissions model specified by EPA.

The activities modeled included the construction workforce commute to and from the project site, commercial and construction deliveries to the project site during the construction period, and non-road mobile sources onsite over the construction years. Both running and startup emissions were evaluated using the MOVES model. The MOVES model analysis was conducted using year specific data files for Luzerne County as made available through the PADEP. These data files included county specific meteorological data, fuel supply and formulation data, inspection & maintenance program information, and vehicle age distributions. Vehicle trip numbers and hours of operation were developed from the project's fuel consumption study, located in Appendix A. Years 1 and 2 of the construction period were calculated using 2013 as a representative year for commuting and delivery mobile source emissions purposes. Year 3 and later use 2014 as a representative year for commuting and delivery mobile source emissions purposes. Estimation of on-site on-road vehicles used 2013 as a representative year for commuting and delivery mobile source emissions purposes.

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In evaluating the construction workforce commute, vehicle miles traveled ("VMT") were calculated for the roadway links leading into the project site based on the roadway trip generation split provided in the traffic analysis conducted by KLD Engineering (Reference 1) and the maximum number of workforce vehicles, per year, accessing the project site. VMT for each roadway link was calculated by multiplying the number of vehicles on the link times the length of the link, resulting in vehicle-miles traveled. Based on the speed of each roadway link, the MOVES model was then executed using the representative year correspondent to the to construction year calculate an annual average VOC and NO_x emission factor for each roadway link (in grams/vehicle-mile traveled). This annual emission factor was then multiplied by the VMT for the link to determine VOC and NO_x emissions as follows:

$$E_{R} = \frac{EF_{R} * VMT}{453.6\frac{g}{lb} * 2000\frac{lb}{ton}}$$

Equation 5

Equation 6

Where:ER is the annual VOC or NOx emissions at a roadway link (tons/year)EFR is the VOC or NOx emission factor from MOVES (grams/mile-vehicle)VMT is the annual vehicle miles traveled on the roadway link (vehicle-miles/year)1/453.6 is the conversion for grams to pounds1/2000 is the conversion from pounds to tons

Summing over all roadway links in the ozone maintenance area provided total emissions of VOC and NO_x from the commute of construction workers. In addition to the emission estimates from running vehicles, emissions from vehicle start-ups were also calculated using MOVES as follows:

$$\mathbf{E}_{\mathbf{S}} = \frac{\mathbf{EF}_{\mathbf{S}} * \mathbf{SU}}{\mathbf{453.6}\frac{\mathbf{g}}{\mathbf{lb}} * \mathbf{2000}\frac{\mathbf{lb}}{\mathbf{ton}}}$$

 Where: E_s is the annual VOC or NO_x emissions from vehicle startups (tons/year) EF_s is the VOC or NO_x emission factor from MOVES (grams/start-vehicle) SU is the annual number of construction workforce startups (vehicle-starts/year) 1/453.6 is the conversion for grams to pounds 1/2000 is the conversion from pounds to tons

Thus, both running emissions and start-up emissions from the construction workforce were considered. Emissions associated with the construction workforce are included in Table 3-1. In executing the MOVES model, annual average emission factors were based on running the MOVES model for twelve hours of the year and averaging these twelve values. (The MOVES model when run at the project level only allows for individual hours to be modeled. Further, the model does not allow the user to specify a specific day of the month, the model uses an average day of the month). The hours run were for the months of January, April, July and October using time periods from 7 to 8 AM, 4 to 5 PM, and Midnight to 1 AM. These hours coincide with the project's construction period shift times. Further the MOVES model results, for each of these hours, were weighted based on the fact that approximately 60% of the construction force will work the day shift, 35% will work the evening shift, and 5% will work the overnight shift.

Truck trips from commercial and construction deliveries were also analyzed for each of the seven years of the construction period. The construction fuel consumption study (see Appendix A), provides the total number of deliveries to the project site for the construction period. The number of deliveries for each individual year, by material delivered, was calculated by scaling total deliveries (over seven years) by the individual year's fuel use divided by the total fuel use over seven years. Vehicle miles traveled were then calculated for each year by multiplying the number of deliveries, for a specific year, times the average travel distance. (The fuel consumption study provides the average round trip by material delivery type.) Further, the fuel consumption study indicates that approximately 45% of the vehicle miles traveled (VMT) associated with deliveries will occur in the Scranton Wilkes-Barre Maintenance Area, 10% will

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occur in the Reading Maintenance Area, and 45% of the VMT will occur in non-Maintenance Areas. Based on this trip scheme, a VMT was calculated for the commercial and construction delivery truck traffic in the Scranton Wilkes-Barre Maintenance Area for each year of the construction period. Similar to the construction workforce, annual emissions of VOC and NO_x were calculated for both run times and startups based on MOVES emission factors, VMT, and number of startups per year. MOVES emission factors were developed assuming half the deliveries were by short haul, single unit trucks and half the deliveries were by short haul, combination unit trucks. Annual VOC and NO_x emissions from delivery truck activity are shown in Table 3-1.

Also for the construction period, on-site on-road motor vehicles used onsite were evaluated with the MOVES model. These vehicles consist of Ford F-250 and F-650 trucks, and Mack MP6 trucks. These motor vehicles were included in the construction equipment fuel study with non-road construction equipment, but emissions are calculated separately using the MOVES model instead of the NONROAD model. Annual VOC and NO_x emissions from the operation and startup of these trucks were calculated. It was assumed that each vehicle will have 15 startups per day, and that 10% of the operating hours will be in idle mode and 90% of the operating hours will be in travel mode. Annual operating hours were determined from the construction fuel consumption study by scaling the total operating hours, over the construction years, by the fraction of fuel used in each year. Based on the annual hours of operation and the number of trucks, total annual VOC and NO_x emissions were calculated as follows:

$$E_{T} = (EF_{TR} * OPH * SP * 0.9) + (EF_{i} * OPH * 0.1) + \frac{EF_{S} * SU}{453.6\frac{g}{ton} * 2000\frac{lb}{ton}}$$
Equation 7

Where: E_T is the annual VOC or NOx emissions from a non-road vehicle (tons/year) EF_{TR} is the VOC or NOx emission factor for travel mode (grams/mile-vehicle)OPH is the annual operating hours (total operating hours/year)SP is the operating speed (miles/hour)0.9 is based on 90% of operating hours in travel mode EF_I is the VOC or NOx emission factor for idle mode (grams/hour-vehicle)0.1 is based on 10% of operating hours in idle mode EF_S is the VOC or NOx emission factor for startups (grams/start-vehicle)SU is the annual number of non-road vehicle startups (vehicle-starts/year)

This equation was used to calculate VOC and NO_x emissions for the F-250, F-650 and Mack MP6 trucks separately. These emissions were then summed for the vehicle types to calculate the total emissions reflected in Table 3-1. Total emission results from the onsite concrete trucks in safety-related construction are included in Table 3-2.

Table 3-1 also provides the total annual VOC and NO_X emissions from all of the motor vehicle sources for the construction period for the Scranton Wilkes-Barre Maintenance Area.

5.0 References

- Traffic Impact Study Related to the Proposed Construction and Operation of the Bell Bend Nuclear Power Plant *Preliminary Findings Report*, KLD Engineering, September 14, 2011 Rev. 5A
- 2. EPA's "NONROAD08 Model (non-road engines, equipment, and vehicles)" http://www.epa.gov/otaq/nonrdmdl.htm
- 3. EPA's "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling—Compression-Ignition" NR-009c April 2004, EPA420-P-04-009.
- 4. EPA's "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling" NR-005c April 2004, EPA420-P-04-005
- EPA's "Conversion Factors for Hydrocarbon Emission Components" NR-002c December 2005, EPA420-R-05-015
- 6. EPA's "MOVES Vehicle Emission Modeling Software" http://www.epa.gov/otaq/models/moves/index.htm

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Appendix A

Sargent & Lundy Fuel Study



Construction Vehicle Fuel Consumption Study

Bell Bend Nuclear Power Plant

UniStar Nuclear Energy

Non-Safety-Related

Report No. SL-010055 Revision 2 Project No. 12198-434

August 30, 2011



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Approval Page

BBNPP Construction Vehicle Fuel Consumption Study

Non-Safety-Related

Revision Summary

Rev. 0	Initial Issue
Rev. 1	Revised Earthwork Quantities
	(Report #SL-009450, Revision 8)
Rev 2	Revised earthwork quantities and updated installation detail per Joint Permit Application Issued for Use

Prepared By: Wendorf Reviewed By: Geh R. Dougherty Approved E D. L. Shamblin

Date: 8/30/2011

Date: _____8/30/2011

Date: <u>8/30/2011</u>

Report No: SL-010055, Rev. 2 Project No. 12198-434 Page 3 of 23

Purpose/Objective

Direct and indirect vehicle emissions are to be included in the air quality applicability analysis for the Bell Bend Nuclear Power Plant (BBNPP) construction period. Construction period vehicle emissions include engine exhaust from non-road construction equipment, commercial vehicles used to deliver material, equipment and commodities, engine driven construction support equipment, and worker vehicles used for their commute to and from the plant construction site.

This report provides fuel consumption estimates for non-road (construction) equipment, worker commuting, and commercial deliveries and services deemed necessary to prepare the site and construct the BBNPP. The associated information and fuel use data (Attachment 1) includes equipment types and model numbers, horsepower ratings, and estimated and quantities of gasoline and diesel fuel usage. The fuel usage estimate is based on information in the Combined Operating License application (COLA), available preliminary design information and also from assumed nuclear project non-road equipment usage based on experience, construction sequencing, forecast construction durations, estimated site construction support, and projected material and equipment deliveries based on current preliminary plant construction quantities and information.

Background

BBNPP is a proposed 1600 MWe Evolutionary Power reactor (EPR) plant to be built near the Susquehanna Steam Electric Station site, close to the Susquehanna River. The proposed new Bell Bend plant site is located in the Scranton Wilkes-Barre ozone maintenance area which consists of the following counties:

- Luzerne
- Wyoming
- Lackawanna
- Monroe

The site is approximately 12 mi (19 km) northwest of Hazelton, Pennsylvania, 19 mi (31 km) southwest of Wilkes-Barre, Pennsylvania, 35 mi (56 km) southwest of Scranton, Pennsylvania, 47 mi (76 km) east, southeast of Williamsport, Pennsylvania; 50 mi (80 km) north of Reading, Pennsylvania, 70 mi (112 km) northeast of Harrisburg, Pennsylvania, and approximately 85 mi (137km) northwest of Philadelphia, Pennsylvania.

Inputs/Assumptions

- 1. Sargent & Lundy DIT-12198-11-002
- 2. RFI-EPR-11-039 RFI input and Revision 1 KLD Traffic Study Assumptions and clarifications
- 3. RFI SL-BBNPP-161 Construction duration and working shift information.
- 4. RFI SL-BBNPP-169 Bulking factor values
- 5. RFI SL-BBNPP-170 Power Block excavation quantities.
- 6. RFI SL-BBNPP-173 Cooling pond and towers over excavation quantities
- 7. RFI SL-BBNPP-189 Grading, drainage and earthwork imported quantities.
- 8. RFI SL-BBNPP-190 Lean fill concrete 200,000 cy
- 9. RFI SL-BBNPP-209 Validation of Quantities
- 10. Temporary electrical power is assumed available early in the project as the site is developed and the support infrastructure is built out to minimize temporary engine driven service and utility requirements. This eliminates the use of large (>50hp) temporary diesel generators.
- 11. To the maximum extent possible, work on the 4 equipment trains, their buildings and the Reactor Containment building are assumed to be performed in parallel.
- 12. Concrete is assumed to be produced at an on site batch plant or plants. The batch plant equipment is motor driven from temporary power electrical sources.

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- 13. Detailed design information is not yet available for BBNPP, therefore fuel usage quantities are developed from information provided in the RFIs noted above, preliminary construction sequence estimates, typical construction equipment applications, and historical power plant construction experience. The selection of non-road equipment size, type and quantity is based on what a contractor would typically use for a power plant project the size and duration of BBNPP.
- 14. Assumed equipment availability and deployment in the estimated construction time frame will generally allow use of non-road equipment which meets the US EPA Tier III engine emission requirements. New equipment purchased after January 2011 with diesel powered engines from 175 to 750 hp is required to meet the interim Tier IV air quality standards. In 2012 engines from 75 to 175 hp will be required to meet the same Tier IV standard. However, new heavy construction equipment has a service life of 12-15 years and is very expensive. Therefore, new Tier III or IV equipment will be slow to enter into the contractor's fleet as existing equipment is replaced so Tier III equipment is assumed for the purpose of this study.
- 15. Non-road vehicles and equipment driven by engines less than 50 hp are not included.
- 16. Based on procurement and receiving experience at power plant sites (fossil plants) recently constructed, much of the current generation of power plant material and equipment is manufactured and shipped from outside the United States. The port of entry for this equipment is assumed to be the Baltimore Philadelphia area.
- 17. The BBNPP site is located about four miles from the western edge of Luzerne County, bordering Columbia County.
- 18. Based on the plant's location relative to major highways and population centers, it is estimated that approximately 45% of the commercial delivery vehicle miles will be traveled in the counties of Wyoming, Lackawanna, Luzerne, and Monroe. (The Scranton Wilkes-Barre ozone maintenance area). It is estimated that 45 % of the commercial delivery and workforce commuter vehicle miles will be traveled on routes within Columbia County, which is not a designated ozone maintenance area. The remaining 10% are assumed to originate or travel through the Reading ozone maintenance area (Berks County) and the Allentown-Bethlehem-Easton ozone maintenance area (Lehigh, Carbon, and Northampton, counties). These percentages are judgments based on geographical location of BBNPP, the relative distribution of hotels and housing for a temporary workforce, and area population centers as well as interpretation of the demography data and information found in RFI EPR-11-39 revision 1 and the COLA, revision 2,Part 3, section 4.4.2.3 (See Attachment 3).
- 19. The KLD Traffic Study as part of RFI EPR-11-39 was used to determine the construction workforce distribution for determining workforce commute quantities. Workforce data from the report was averaged over an entire year. From the KLD traffic study, a baseline of 1.3 workers per car was used to determine the number of commuter vehicles. It is estimated that approximately 8% will drive diesel vehicles.
- 20. The Fuel Usage table (Attachment 1 Tab 2) contains an estimate of the fuel used to support the construction of the Safety Related systems, structures and components. The first column in the Safety Related Fuel Use Data worksheet indicates the percentage of work estimated to be safety-related for that sub-section or activity. The total estimated fuel use for an activity is then multiplied by that percentage to determine the quantity of fuel used to construct the safety related portions of that activity which is then summed up for the Project.
- 21. Pick-up trucks and vehicles that may at times be used for off site, on the road purposes, such as running errands, picking up parts and local material, and making service runs are included in the Fuel Usage worksheets and noted as "licensed for off-site use." We expect the percent of time that they would be off-site to be less than 30% of the total usage. Most of these vehicles will be gasoline driven as indicated in the Fuel Usage worksheets.

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Methodology and Criteria

Detailed design and planning information regarding the construction of the BBNPP was unavailable at this time, therefore the equipment use and fuel consumption information were determined using the following process:

- 1. Where commodity quantities are available, unit production rates and contractor experience were used to determine equipment needs, durations, and usage.
- Where commodity quantities are unavailable, typical construction units, rates and durations are used based on past nuclear construction experience, current fossil plant construction experience, and commercially available estimating tools.

The fuel consumption totals were developed from the estimated equipment needs and usage using consumption rates provided by the equipment manufacturer, or from published equipment specifications and information available for the specific type and make of equipment using the engine size (horsepower) and published fuel usage factors. The typical information provided is the horsepower rating of the engine driving the equipment which is converted into consumption rates using standard gallons per hour per horsepower (gal/hr/hp) ratings for the types of equipment being used (References 12 through 22).

Total non-road consumption was estimated from the consumption rate multiplied by the anticipated duration (hours used) for the equipment multiplied by the net effective operating time or efficiency. Construction equipment does not run continuously at 100% power. Column J on the Fuel Usage worksheets represents the effective percentage of time the equipment will be operating during a normal shift which reduces the overall rate of fuel consumption.

Total commuter fuel consumption was determined based on an estimated 50 miles/day round trip commute in a vehicle that averages 20 miles/gallon of gasoline and 18 miles/gallon of diesel fuel. 8% of the commuter vehicles are assumed to be diesel trucks based on national averages and construction experienced.

Evaluation

Attachment 1 includes a detailed table which identifies and quantifies estimated fuel consumption sources, totals and usage by construction year.

The decision to retain and redistribute all cut and excavated soil on site reduced the consumption of fuel for site preparation by almost one-half, about two million gallons, thereby greatly reducing the volume of fuel emissions and significantly lowering the impact of semi-truck traffic through the neighboring communities.

Conclusions and Recommendations

Non-road Equipment

Attachment 1, Section 1, identifies by equipment type and model number, the estimated quantity and type of fuel used during the construction phase from early site preparation through plant startup. The information presented includes:

- Type, brand, and model number of non-road construction equipment typically used for the anticipated construction guantities and type of construction.
- Engine size Horsepower.
- Expected activity duration.
- Total and yearly fuel consumption.
- Fuel type Diesel or Gasoline.

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- EPA engine emissions type (Tier) for the type and model of diesel equipment to be used.
- Quantification of Project use of construction highway vehicles pickup trucks, service vehicles, delivery trucks.

Site Deliveries & Service Calls

Attachment 1, Section 2 estimates the quantity, distance, total consumption and anticipated year of consumption for commercial deliveries of commodities, material and equipment, service calls, vendor deliveries and visits, delivery distance, and estimated consumption from origin. Pickup trucks and other on site vehicles licensed for highway use are included in Section 1.

Construction Workforce Commuters

Attachment 1, Section 3 estimates the fuel consumed by construction workforce commuters. Based on experience an estimated 8% of the construction workforce drives diesel driven trucks to and from work. That percentage is captured in the estimates for worker commute fuel usage.

Summary of Estimate by Counties

See the attached Excel spreadsheet (Attachment 1) for the consumption of fuel by the categories described above.

Estimate of Permanent Fuel Storage Tanks

Equipment refueling needs could be handled by permanent a 10,000 gallon storage tank for diesel fuel and a 5,000 gallon tank for gasoline.

It's possible that the contractor performing the site preparation and dirt work will use a fueling service thereby reducing the diesel storage tank size needed to 5,000 gallons.

Limitations

This study was developed using preliminary site information and assumptions based on recent participation in new fossil construction, current planning for new nuclear construction, and past nuclear plant construction experience. However, the quantities of construction equipment needed, the durations that the equipment is needed, and the size of equipment may vary from the material presented here based on final design, design quantities, site configuration, and on the techniques and process chosen by the construction contractor who will be performing the work.

References

- 1. E-mail dated Friday, August 7, 2009 5:58 PM from Robert Iwanchuk to Frederico R Perdomo (Attachment 4)
- 2. Sargent & Lundy DIT-12198-11-002
- 3. RFI-EPR-11-039 Revision 1 KLD Traffic Study Assumptions
- 4. RFI SL-BBNPP-161 Construction duration and working shift information.
- 5. RFI SL-BBNPP-169 Bulking factor values
- 6. RFI SL-BBNPP-170 Power Block excavation guantities.
- 7. RFI SL-BBNPP-173 Cooling pond and towers over excavation quantities
- 8. RFI SL-BBNPP-189 Grading, drainage and earthwork imported quantities.
- 9. RFI SL-BBNPP-190 Lean fill concrete 200,000 cy
- 10. RFI SL-BBNPP-209 Validation of Quantities
- 11. Bell Bend Nuclear Power Plant, Combined License Application (COLA), Revision 2, Part 3, Section 4.4, Socioeconomic Impacts Table 4.4.3,
- 12. RSMeans Heavy Construction Cost Data, Senior Editor Eugene Spencer, 23rd Annual Edition (2009), R. S. Means Company, Inc., 2008

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- 13. Gransberg, D.L. (et.al), Construction Equipment Management for Engineers, Estimators, and Owners, CRC Press, Boca Raton, FL, 2006
- 14. Manitowoc fuel consumption Excel spreadsheet from Amy J. Crouse, Business Systems Analyst - Web Sites, Manitowoc Cranes in response S&L request by E. E. Falb.
- Manotowoc Crane Product information (Internet resource), available at http://www.manitowoccranes.com/MCG_MC/PRODUCTS/EN/BRANDRANGE.ASP
- 16. Caterpillar Product Specifications (Internet resources) available at http://www.cat.com/equipment
- 17. Caterpillar Performance Handbook Edition 29, A Cat publication by Caterpillar, Inc., Peoria, Illinois, October 1998
- 18. Grove Cranes Product Specifications (Internet Resource) available at http://www.manitowoccranes.com/MCG_GRO/Products/EN/BrandRange.asp
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- 21. Mack Truck product information (Internet resource) http://www.macktrucks.com/assets/MackMarketing/Brochures/BulDgLnBro/4601_BulDgLnB ro.pdf
- 22. Putzmeister Concrete pumps, Product information (Internet resource) http://www.putzmeister.com/products/boompumps/index.cfm

Attachments

- Attachment 1 Construction Fuel Consumption Information Tables Worksheet 1 – Total Fuel Usage (Safety and Non-safety related work) Worksheet 2 – Safety-related Fuel Usage
- Attachment 2 RFI EPR 11-039 Revision 1 Origins of the Construction Workforce (numbers by direction – North, South, etc.) table from RFI input (KLD Traffic Study).
- 3. Attachment 3 Pennsylvania map of 8 hour ozone maintenance areas
- 4. Attachment 4 E-mail sent Friday, August 7, 2009 5:58 PM from Robert Iwanchuk to Frederico R Perdomo requesting information for BBNPP Air Quality applicability analysis

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Attachment 1

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BBNPP Construction Fuel Consumption Data - Excel Spreadsheet

Worksheet 1 of 2 – Total Fuel Usage (Safety and Non-safety related work) Worksheet 2 of 2 – Safety-related Fuel Usage

Bell	tar Nuclear 3end Nuclear Power Plant truction Vehicle Fuel Consumption Study			Worksl Total Fuel Usage (- Page 1 of				1			° 8. ¥1.		Re	eport No: SL-0 Project	010055, Re No. 12198
l work	Section 1 Non-Road Construction Equipment	Equipment	Class/Model #	HP Tier C	anty On S	Site Wk%	Hours or Distance	g/h g/h/hp	Average Fuel Rate	Total Fuel (Gal)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year7
	IA. Early Site Preparation																
00%	Clearing, Deforesting, Grubbing & Grading		0.1540	700.00		14- 7504	0000 1			cc 000	66.000	0	0	0			
	Including:	Tracked Dozer	Cat D10 CAT 973C	700 Hp III 263 Hp III		Mo 75% Mo 75%		10	20.0 gal/hr Diesel 10.0 gal/hr Diesel	66,000 24,750	24,750	0	0				A
	Access Roads Topsoil cut & stockpile	Tracked Loader Excavator - Medium	Cat 321D	148 Hp III		Mo 60%	1980 hr	5	5.0 gal/hr Diesel	9,900	9,900	0	0		0		
	Topsoil Removal- 503414 cy	Excavator - With tree attachment	Cat 345D L	380 Hp III		Mo 60%	660 hr	10	10.0 gal/hr Diesel	6,600	6,600	0	0		C		
	Used for final grading - 128,000 cy	Crane - Picker	Grove RT530E-2 30t	160 Hp III		Mo 40%	880 hr	0.028	4.5 gal/hr Diesel	3,942	3,942	0	0	0	C	0 0	D
	Topsoil Stockpiled - 376257cy	Semi-Trailer Dump	Mack MP8	450 Hp III		Mo 50%	5500 hr	0.026	11.7 gal/hr Diesel	64,350	64,350	0	0		C	0 (
		Motor Grader	Cat 14M	259 Hp III		Mo 45%	990 hr	11	11.0 gal/hr Diesel	10,890	10,890	0	0		C	0 0	
		Scraper	Cat 631G	462 Hp III		Mo 60%	5280 hr	16	16.0 gal/hr Diesel	84,480	84,480	0	0		C		
		Scraper	Cat 631G	462 Hp III		Mo 60%	1980 hr	16	16.0 gal/hr Diesel	31,680	31,680	0	0		0		A CONTRACTOR OF A CONTRACTOR O
		Vibratory Soil Compactor	Cat CS74 Mack MP6	156 Hp III 150 Hp II		Mo 60%	660 hr 440 hr	3.5	6.0 gal/hr Diesel	3,960	3,960	0	0				
		Water Trucks Pickup Truck 3/4 ton	F-250	150 Hp II 300 Hp		Mo 40% Mo 50%	1100 hr	3	3.5 gal/hr Diesel 3.0 gal/hr Diesel	3,300	3,300	0	0				
	and the second state of the se	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp		Mo 50%		3.5	3.5 gal/hr Gas	3,850	3,850	0	0	0	č	a i	2
		Fuel Truck	Mack MP6	150 Hp II		Mo 20%			3.5 gal/hr Diesel	1,540	1,540	0	0		0		D
		Mechanic's Truck 2-1/2 ton	F-650	270 Hp III	1 5	Mo 30%		4 0.026	4.0 gal/hr Diesel	1,200	1,200	Ō	0	Ō	C	0 0	
	IB. Site Development & Excavation																
00%	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposa - Intake Area, Switchyard, Northeast Laydown, West Laydown																
	Estimated Quantities:	Tracked Dozer/Ripper	Cat D10	700 Hp III	7 4	Mo 75%	4200 hr	20	20.0 gal/hr Diesel	84,000	25,200	58,800	0	0	C	0 0	0
	Removal - 870,471cy	Scraper	Cat 637G (dual engine)	962 Hp III	6 4	Mo 50%		32	32.0 gal/hr Diesel	76,800	23,040	53,760	0		C		D
	Placement - 881,664cy	Excavator - Medium	Cat 321D	148 Hp III		Mo 60%	480 hr	5	5.0 gal/hr Diesel	2,400	720	1,680	0				0
		Tracked Loader	CAT 973C	263 Hp III		Mo 70%		10	10.0 gal/hr Diesel	33,600	10,080	23,520	0		0		A DECEMBER OF THE OWNER
2		Motor Grader	Cat 14M	259 Hp III		Mo 50%	400 hr	11	11.0 gal/hr Diesel	4,400	1,320	3,080	0				
		Pickup Truck 3/4 ton	F-250	300 Hp		Mo 35%	280 hr 400 hr		3.0 gal/hr Diesel 3.5 gal/hr Diesel	1,400	252 420	588 980	0				2
		Water Trucks Pickup Truck 3/4 ton (Licensed for offsite use)	Mack MP6	150 Hp II 300 Hp		Mo 50% Mo 40%		3.5	3.5 gal/hr Gas	2,240	672	1.568	0				
00%	Excavating/Backfilling/Earth/Soli/Rock Remove & Disposa - Powerblock (Includes GIS, Switchyard, Cooling towers and North central laydown area)																
	Estimated Quantities:	Tracked Dozer/Ripper	Cat D10	700 Hp III		Mo 60%		20	20.0 gal/hr Diesel	124,800	62,400	62,400	0				
<u></u>	Removal - 10,837,579 cy	Tracked Dozer/Disk	Cat D9	410 Hp III		Mo 60%		15 10	15.0 gal/hr Diesel 10.0 gal/hr Diesel	23,400 31,200	9,360 12,480	9,360 12,480	4,680 6,240				
	Placement - 2,681,000 cy	Tracked Loader	CAT 973C Cat 637G (dual engine)	263 Hp III 962 Hp III		Mo 60% Mo 50%		32	32,0 gal/hr Diesel	624,000	312,000	312,000	0,240				
<u></u>	and the state of the second	Scraper Vibratory Soil Compactor	Cat CS74	156 Hp III		Mo 45%		6	6.0 gal/hr Diesel	14,040	2,808	5,616	5,616				
<u></u>		Soil Compactor	Cat 825H	400 Hp III		Mo 45%		18	18.0 gal/hr Diesel	42,120	8,424	16,848	16,848		Č		Contractory of the local division of the loc
		Excavator - Medium	Cat 321D	148 Hp III		Mo 60%		5	5.0 gal/hr Diesel	15,600	6,240	6,240	3,120		C		0
		Tracked Loader	CAT 973C	263 Hp III	6 13	Mo 70%	10920 hr	10	10.0 gal/hr Diesel	109,200	43,680	43,680	21,840	0		0 0	0
		Motor Grader	Cat 14M	259 Hp III		Mo 50%		11	11.0 gal/hr Diesel	28,600	8,580	11,440	8,580			0 (
		Excavator - Large	Cat 375L	428 Hp III		Mo 60%		16	16.0 gal/hr Diesel	124,800	62,400	62,400	0		0		
		Off Road Truck (80 ton payload)	Cat 773	650 Hp III		Mo 45%		16	16.0 gal/hr Diesel	561,600	224,640	224,640	112,320	0			
		Pickup Truck 3/4 ton	F-250 Mack MP6	300 Hp 150 Hp II		Mo 35% Mo 50%		3,5	3.0 gal/hr Diesel 3.5 gal/hr Diesel	8,190	3,276	3,276	2,730	0	0		
	C	Water Trucks Water Wagon 8000 gal	Cat 631G	462 Hp II		Mo 50%		16	16.0 gal/hr Diesel	20,800	6,240	8.320	6.240		0	-	
<u>anidana)</u>		Mechanic's Truck 2-1/2 ton	F-650	270 Hp III		Mo 30%		4 0.026	4.0 gal/hr Diesel	6,240	2,496	2,496	1,248		Ċ		and the second
		End Loader (Batch Plant)	Cat 966H	262 Hp III		Mo 50%		5	5.0 gal/hr Diesel	3,520	0	2,640	880	0	C	0 0	0
		Concrete Truck	Mack MP6	150 Hp III	15 4	Mo 33%		3.5	3.5 gal/hr Diesel	12,197	0	9,148	3,049		C	0 0	
		Pickup Truck 3/4 ton	F-250	300 Hp		Mo 50%		3	3.0 gal/hr Diesel	3,900	1,560	1,560	780		C		
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp		Mo 40%		3.5	3.5 gal/hr Gas	7,280	2,912	2,912	1,456		0		0
		Fuel Truck	Mack MP6	150 Hp II	4 13	Mo 20%	2080 hr	3,5	3.5 gal/hr Diesel	7,280	2,912	2,912	1,456	0		1	
								9	9.0 gal/hr Diesel	13,500	0	8,100	5.400	0		ol (ol
00%	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposa - Parking Estimated Quantities:	Tracked Dozer	Cat D7E	235 Hp III	2 5	Mo 75%	1500 hr										A state of the second
00%	- Parking Estimated Quantities:	I Tracked Dozer Scraper	Cat D7E Cat 631G	235 Hp III 462 Hp III		Mo 75% Mo 50%		16		8,000	0	4,800	3,200	0	0	0 0	D
D0%	Parking Estimated Quantities: Removal 287,820cy	Scraper	Cat D7E Cat 631G Cat CS74	235 Hp III 462 Hp III 156 Hp III	1 5		500 hr	9	16.0 gal/hr Diesel 6.0 gal/hr Diesel	8,000 5,400	0	4,800 3,240	3,200 2,160		((
00%	- Parking Estimated Quantities:	Scraper Vibratory Soil Compactor	Cat 631G	462 Hp III	1 5 2 5	Mo 50%	500 hr	16	16.0 gal/hr Diesel		0			0		0 0	0
D0%	Parking Estimated Quantities: Removal 287,820cy	Scraper	Cat 631G Cat CS74 Cat 825H Cat 321D	462 Hp III 156 Hp III 400 Hp III 148 Hp III	1 5 2 5 2 5 1 5	Mo 50% Mo 45% Mo 45% Mo 60%	500 hr 900 hr 900 hr 600 hr	16 6 18 5	16.0 gal/hr Diesel 6.0 gal/hr Diesel 18.0 gal/hr Diesel 5.0 gal/hr Diesel	5,400 16,200 3,000	0 0 0 0	3,240 9,720 1,800	2,160 6,480 1,200	0 0 0	C		D D
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00%	Parking Estimated Quantities: Removal 287,820cy	Scraper Vibratory Soil Compactor Soil Compactor Excavator - Medium Tracked Loader Motor Grader	Cat 631G Cat CS74 Cat 825H Cat 321D CAT 973C Cat 14M	462 Hp III 156 Hp III 400 Hp III 148 Hp III 263 Hp III 259 Hp III	1 5 2 5 2 5 1 5 1 5 1 5 1 5	Mo 50% Mo 45% Mo 45% Mo 60% Mo 70% Mo 50%	500 hr 900 hr 900 hr 600 hr 700 hr 500 hr	3 16 6 18 5 10 11	16.0 gal/hr Diesel 6.0 gal/hr Diesel 18.0 gal/hr Diesel 5.0 gal/hr Diesel 10.0 gal/hr Diesel 11.0 gal/hr Diesel	5,400 16,200 3,000 7,000 5,500	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,240 9,720 1,800 4,200 3,300	2,160 6,480 1,200 2,800 2,200	0 0 0 0 0	C	D C D C D C D C D C D C	0 0 0 0 0
00%	Parking Estimated Quantities: Removal 287,820cy	Scraper Vibratory Soil Compactor Soil Compactor Excavator - Medium Tracked Loader Motor Grader Asphalt Paver	Cat 631G Cat CS74 Cat 825H Cat 321D CAT 973C Cat 14M Barber GreeneAP-1000	462 Hp III 156 Hp III 400 Hp III 148 Hp III 263 Hp III 259 Hp III 174 Hp III	1 5 2 5 2 5 1 5 1 5 1 5 1 5 1 5	Mo 50% Mo 45% Mo 45% Mo 60% Mo 70% Mo 50% Mo 50%	500 hr 900 hr 900 hr 600 hr 700 hr 500 hr 500 hr	16 6 18 5 10 11 6	16.0 gal/hr Diesel 6.0 gal/hr Diesel 18.0 gal/hr Diesel 5.0 gal/hr Diesel 10.0 gal/hr Diesel 11.0 gal/hr Diesel 6.0 gal/hr Diesel	5,400 16,200 3,000 7,000 5,500 3,000	0 0 0 0 0 0	3,240 9,720 1,800 4,200 3,300 1,800	2,160 6,480 1,200 2,800 2,200 1,200	0 0 0 0 0 0	C		0 0 0 0 0 0
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0%	Parking Estimated Quantities: Removal 287,820cy	Scraper Vibratory Soil Compactor Soil Compactor Excavator - Medium Tracked Loader Motor Grader Asphalt Paver	Cat 631G Cat CS74 Cat 825H Cat 321D CAT 973C Cat 14M Barber GreeneAP-1000	462 Hp III 156 Hp III 400 Hp III 148 Hp III 263 Hp III 259 Hp III 174 Hp III	1 5 2 5 2 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	Mo 50% Mo 45% Mo 45% Mo 60% Mo 70% Mo 50% Mo 50%	500 hr 900 hr 900 hr 600 hr 700 hr 500 hr 500 hr 500 hr	16 6 18 5 10 11 6	16.0 gal/hr Diesel 6.0 gal/hr Diesel 18.0 gal/hr Diesel 5.0 gal/hr Diesel 10.0 gal/hr Diesel 11.0 gal/hr Diesel 6.0 gal/hr Diesel	5,400 16,200 3,000 7,000 5,500 3,000	0 0 0 0 0 0 0 0 0	3,240 9,720 1,800 4,200 3,300 1,800	2,160 6,480 1,200 2,800 2,200 1,200	0 0 0 0 0 0 0 0	C		D D D D D D D D D D D

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Bell E	tar Nuclear 3end Nuclear Power Plant truction Vehicle Fuel Consumption Study			Attachment 1 ksheet 1 of 2 - Page 2 of 6 e (Safety and Non-safety related work)			Report No: SL-010055, Rev. 2 Project No. 12198-434
100%	Excavating/Backfilling/Earth/Soil/Rock Remove & Dispos - Support road (Includes Quarry, Batch plant, Central						
	laydown)	Tracked Dozer	Cat D7E	4 15 Mo 75% 9000 hr 9 9.0 gal/hr	Diesel 81.000	24,300 40,500 16,200	0 0 0 0
	Estimated Quantities:	Scraper	Cat 637G (dual engine)	3 15 Mo 50% 4500 hr 32 32.0 gal/hr		72,000 64,800 7,200	0 0 0 0
	Removal - 364,572 cy Placement - 2,819,652 cy	Vibratory Soil Compactor	Cat CS74	1 15 Mo 45% 1350 hr 6 6.0 gal/hr		2,430 4,050 1,620	0 0 0 0
	Placement - 2,819,652 CV	Soil Compactor	Cat 825H	2 15 Mo 45% 2700 hr 18 18.0 gal/hr		14,580 24,300 9,720	0 0 0
		Excavator - Medium	Cat 321D	2 15 Mo 60% 3600 hr 5 5.0 gal/hr		5.400 9.000 3.600	0 0 0
		Tracked Loader	CAT 973C	2 15 Mo 70% 4200 hr 10 10.0 gal/hr		12,600 21,000 8,400	0 0 0
		Motor Grader	Cat 14M	2 8 Mo 50% 1600 hr 11 11.0 gal/hr		5,280 8,800 3,520	0 0 0
		Asphalt Paver	Barber GreeneAP-1000	1 5 Mo 50% 500 hr 6 6.0 gal/hr		0 1,800 1,200	0 0 0
		Asphalt Compactor	Cat CB434C	1 5 Mo 50% 500 hr 4 4.0 gal/hr		0 1,200 800	0 0 0
		Pickup Truck 3/4 ton	F-250	1 15 Mo 35% 1050 hr 3 3.0 gal/hr		945 1,575 630	0 0 0
		Water Trucks	Mack MP6	2 15 Mo 40% 2400 hr 3,5 3,5 gal/hr		2.520 4.200 1.680	0 0 0
		Water Wagon 8000 gal	Cat 631G	1 15 Mo 40% 1200 hr 18 18.0 gal/hr	Diesel 21,600	6,480 10,800 4,320	0 0 0 0
	A CONTRACTOR OF	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	2 15 Mo 50% 3000 hr 3.5 3.5 gal/hr		3,150 5,250 2,100	0 0 0
100%	Excavating/Backfilling/Earth/Soil/Rock Remove & Dispos - South Laydown						
	Estimated Quantities:	Tracked Dozer	Cat D10	4 4 Mo 75% 2400 hr 20 20.0 gal/hr		14,400 24,000 9,600	0 0 0
	Removal - 142,188cv	Soil Compactor	Cat 825H	1 4 Mo 45% 360 hr 18 18.0 gal/hr		1,944 3,240 1,296	0 0 0
	Placement - 3,815,583cy	Excavator - Medium	Cat 321D	3 4 Mo 60% 1440 hr 5 5.0 gal/hr		2,160 3,600 1,440	0 0 0
		Motor Grader	Cat 14M	1 4 Mo 50% 400 hr 11 11.0 gal/hr		1,320 2,200 880	0 0 0
		Water Trucks	Mack MP6	1 4 Mo 50% 400 hr 3.5 3.5 gal/hr		420 700 280	0 0 0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	1 4 Mo 50% 400 hr 3.5 3.5 gal/hr	Gas 1,400	420 700 280	0 0 0
100%	Boring/Soils investigation				and the second second second		
	Includes Wells & Dewatering	Schramm T64 Well Drilling Rig	Cat 3406 diesel	1 4 Mo 35% 246 hr 0.026 10.9 gal/hr		2,691 0 0	0 0 0
		Pickup Truck 3/4 ton	F-250	1 4 Mo 50% 352 hr 3 3.0 gal/hr	Diesel 1,056	1,056 0 0	0 0 0
100%	Underground utilities, piping, duct runs, grounding				Contraction Provident Contractor		
		Crane - Picker	Grove RT530E-2 30t	2 8 Mo 40% 1126 hr 0.026 4.2 gal/hr		0 2,343 2,343	0 0 0
		Tracked Dozer	Cat D7E	2 8 Mo 60% 1690 hr 9 9.0 gal/hr		0 7,603 7,603	0 0 0
		Backhoe	Cat 430E	6 8 Mo 60% 5069 hr 0.028 2.9 gal/hr		0 5,791 4,343	4,343 0 0 0
		Pickup Truck 3/4 ton	F-250	8 8 Mo 40% 4506 hr 3 3.0 gal/hr		0 5,407 5,407	2,703 0 0 0
		Excavator - Medium	Cat 321D	2 8 Mo 60% 1690 hr 5 5.0 gal/hr		0 5,069 3,379	0 0 0 0
		Semi-Trailer Dump	Mack E8	1 8 Mo 60% 845 hr 0.026 10.4 gal/hr	Diesel 8,786	0 4,393 3,514	879 0 0 0
100%	Warehouse & Storage						
	Construction & Operation	Fork Lift - 15,000 Lb capacity	Cat DP70E	2 68 Mo 35% 8378 hr 0.033 3.1 gal/hr		0 2,599 5,197	7,796 6,497 2,599 1,299
		Crane - Picker	Grove RT530E-2 30t	2 68 Mo 40% 9574 hr 0.026 4.2 gal/hr			11,949 9,957 3,983 1,991
940.00 1940.00		Pickup Truck 3/4 ton	F-250	2 68 Mo 50% 11968 hr 3 3.0 gal/hr		0 3,590 7,181	10,771 8,976 3,590 1,795
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	1 68 Mo 30% 3590 hr 3.5 3.5 gal/hr		0 1,257 2,513	3,770 3,142 1,257 628
		Material truck 2-1/2 ton	F-650	1 68 Mo 25% 2992 hr 0.026 7.0 gal/hr		0 2,100 4,201	6,301 5,251 2,100 1,050
		Rough Terrain Extended Forklift	Lull 1044C-54	1 68 Mo 45% 5386 hr 0.026 3.0 gal/hr		0 1,610 3,221	4,831 4,026 1,610 805
	PART 1 PRE-CONSTRUCTION GAS				37,836	11,004 11,687 6,349	3,770 3,142 1,257 628
	PART 1 PRE-CONSTRUCTION DIESEL				3,027,683	1.317,916 1.254,017 350,846	49,573 34,707 13,883 6,941
	IIA. Civil/Concrete structure Work					The second s	
100%	Bridge Construction (7 Bridges)				70.000	0 14.400 21.600	21,600 14,400 0 0
		Tracked Dozer	Cat D10	3 12 Mo 50% 3600 hr 20 20.0 gal/hr		0 14,400 21,600 0 5,520 8,280	21,600 14,400 0 0 8,280 5,520 0 0
		Tracked Dozer	Cat D8	2 12 Mo 50% 2400 hr 11.5 11.5 gal/hr 2 12 Mo 45% 2160 hr 18 18.0 gal/hr			8,280 5,520 0 0 11,664 7,776 0 0
		Soil Compactor	Cat 825H			0 7,776 11,664 0 4.800 7,200	7,200 2,400 2,400 0
		Excavator - Medium	Cat 321D	4 12 Mo 50% 4800 hr 5 5.0 gal/hr 1 12 Mo 40% 960 hr 11 11.0 gal/hr		0 2,112 3,168	3,168 2,112 0 0
		Motor Grader	Cat 14M			0 840 1,260	1,260 840 0 0
		Water Trucks	Mack MP6 Mack MP6			0 3.326 4.990	4,990 3,326 0 0
	And the second	Concrete Truck		5 12 Mo 45% 4752 hr 3.5 3.5 gal/hr 3 12 Mo. 60% 3802 hr 0.028 2.2 gal/hr		0 1,703 2,555	2,555 852 852 0
	the second se	Tractor Loader/Backhoe	Case 580 Grove RT530E-2 30t	4 12 Mo 50% 4224 hr 0.026 4.2 gal/hr		0 3.514 5.272	5.272 1.757 1.757 0
		Crane - Picker	Manitowoc 555 - 150t	2 12 Mo 50% 4224 m 0.026 4.2 gainin 2 12 Mo 50% 2112 hr 6.3 6.3 gai/hr		0 2.661 3.992	3,992 2,661 0 0
		Crane - Lattice Boom	Putzmeister 47Z-Meter	1 12 Mo 25% 528 hr 0.028 8.4 gal/hr		0 444 1,331	1,331 887 444 0
	and the later was seen as a believer of the second	Truck Mtd Boom 200 yds/hr Concrete Pump	F-250	2 12 Mo 25% 528 hr 0.028 6.4 gai/hr 2 12 Mo 25% 1056 hr 3 3.0 gal/hr		0 317 950	950 634 317 0
		Pickup Truck 3/4 ton	F-250	1 12 Mo 25% 528 hr 3.5 3.5 gal/hr		0 185 554	554 370 185 0
		Pickup Truck 3/4 ton (Licensed for offsite use)	Lull 1044C-54	2 12 Mo 45% 1901 hr 0.026 3.0 gal/hr		0 568 1,705	1.705 1.137 568 0
		Rough Terrain Extended Forklift End Loader (Batch Plant)	Cat 966H	1 12 Mo 50% 1056 hr 5 5.0 gal/hr		0 528 1,584	1,703 1,137 500 0
100%	Sheet Piling		Pour pour		3,200		and the set of a
100%	Sheet Filling	Crane - Lattice Boom+Hammer	Manitowoc 111 - 80t	1 4 Mo 50% 352 hr 5.3 5.3 gal/hr	Diesel 1.866	0 933 933	0 0 0 0
-		Crane - Picker	Grove RT530E-2 30t	2 4 Mo 35% 493 hr 0.026 4.2 gal/hr		0 1.025 1.025	0 0 0
			10.010 1110000-0 001	- I no oral too in the state of the gap in	2,000	1010	

Report No: SL-010055, Rev. 2

Attachment 1

I IniOtes Musleas

	star Nuclear Bend Nuclear Power Plant struction Vehicle Fuel Consumption Study				Attachment 1 eet 1 of 2 - Page 3 of 6 Safety and Non-safety related	d work)					in In	Repo	t No: SL-010055 Project No: 12
100%	Structural concrete							20.000		10.000	40.000	40.000	0.450
		Truck Mtd Boom 200 yds/hr Concrete Pump	Putzmeister 47Z-Meter			00 hr 0.02		63,000	0 6,300	18,900	18,900 14,969	12,600 9,979	3,150
	for an international statement of the second statement of t	Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II		20 hr 6.3	6.3 gal/hr Diesel 6 4.2 gal/hr Diesel	39,537	0 3.954	11,861	11,861	7.907	1.977
		Crane - Picker Pickup Truck 3/4 ton	Grove RT530E-2 30t F-250	160 Hp III 300 Hp	5 36 Mo 30% 950 12 36 Mo 25% 1900	0.02	3.0 gal/hr Diesel	57,024	0 5,702	17,107	17,107	11,405	2.851
		Pickup Truck 3/4 ton Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp		36 hr 3.5	3.5 gal/hr Gas	22,176	0 2.218	6,653	6.653	4,435	1,109
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III	6 36 Mo 45% 1710			51,151	0 5,115	15,345	15,345	10,230	2,558
		End Loader (Batch Plant)	Cat 966H		2 36 Mo 50% 633		5.0 gal/hr Diesel	31,680	0 3,168	9,504	9,504	6,336	1,584
	and the second	Concrete Truck	Mack MP6		10 36 Mo 33% 2090		3.5 gal/hr Diesel	73,181	0 7.318	21,954	21,954	14,636	3.659
		Tractor Loader/Backhoe	Case 580		4 36 Mo. 50% 1267			28,385	0 2.839	8,516	8,516	5,677	1,419
	Non Power Block - Pump House, Switchyard, Cooling		Cube Dee	CONTRACT IN					ALC: NOTE			in the second	
100%	Towers, Pump House												
10070	Torrero, r emp riouse	Crane - Picker	Grove RT530E-2 30t	160 Hp III	2 36 Mo 67% 849	90 hr 0.02	6 4.2 gal/hr Diesel	35,319	0	24,724	10,596	0	0
		Pickup Truck 3/4 ton	F-250	300 Hp		59 hr 3	3.0 gal/hr Diesel	15,206	0 0	10,644	4,562	0	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp	1 36 Mo 40% 253	34 hr 3.5	3.5 gal/hr Gas	8,870	0 0	6,209	2,661	0	0
		Material truck 2-1/2 ton (Licensed for off site use	F-650	270 Hp III	1 36 Mo 25% 158	84 hr 4	4.0 gal/hr Diesel	6,336	0 0	4,435	1,901	0	0
		Truck Mounted Boom Concrete Pump	Putzmeister 47Z-Meter	300 Hp III		0.02 D1 hr		15,967	0 0	11,177	4,790	0	0
	- 2447 Ali Ali Andrea Ali Andrea Ali Angres ang	Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II		36 hr 6.3	6.3 gal/hr Diesel	39,917	0 0	27,942	11,975	0	0
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III	1 24 Mo 45% 190	0.02 D1 hr	5 3.0 gal/hr Diesel	5,683	0 0	3,978	1,705	0	0
100%	Switchyard						in the second second second						
1		Crane - Picker	Grove RT530E-2 30t	160 Hp III		58 hr 0.02		13,179	0 0	6,589	5,272	1,318	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp		34 hr 3.5	3.5 gal/hr Gas	8,870	0 0	4,435	3,548	887	0
		Material truck 2-1/2 ton	F-650	270 Hp III		92 hr 0.02		5,560	0 0	2,780	2,224	556	0
		Truck Mounted Boom Concrete Pump	Putzmeister 47Z-Meter	300 Hp III		50 hr 0.02		7,983	0 0	5,988	1,996	0	0
		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II		92 hr 6.3	6.3 gal/hr Diesel	4,990	0	3,742	1,247	0	0
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III	1 18 Mo 45% 142	26 hr 0.02	6 3.0 gal/hr Diesel	4,263	0	3,197	1,066	0	0
100%	Cooling Tower										-		
		Crane - Picker	Grove RT530E-2 30t	160 Hp III		90 hr 0.02		35,319	0 0	0	10,596	24,724	0
		Pickup Truck 3/4 ton	F-250	300 Hp		02 hr 3	3.0 gal/hr Diesel	11,405	0 0	0	3,421	7,983	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp		67 hr 3.5	3.5 gal/hr Gas	4,435	0 0	0	1,331	3,105	0
		Material truck 2-1/2 ton	F-650	270 Hp III		92 hr 0.02		5,560	0 0	0	1,668	3,892	0
		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II		34 hr 6.3	6.3 gal/hr Diesel	9,979	0 0	0	2,994	6,985 11,177	0
	and the second	Truck Mounted Boom Concrete Pump	Putzmeister 47Z-Meter	300 Hp III		0.02 0.02		15,967	0 0	0	2,558	5,968	0
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III	1 36 Mo 45% 285	51 hr 0.02	5 3.0 gal/hr Diesel	8,525 46.200	and the second se	17,852	14 747	370	185
	PART IIA GAS							890,758	0 2,402	300.859	75.549	45.358	6.865
100%	PART IIA DIESEL							000,700	0 00,000	300,033	100461	40,000	0.000
100%	IIB. Superstructure & Structural Steel Structural and building steel												
	Structural and building steel	Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp 11	5 12 Mo 50% 528	30 hr 6.3	6.3 gal/hr Diesel	33,264	0 0	6.653	24.948	1.663	0
		Crane - Lattice Boom	Manitowoc 999 - 275t	400 Hp III		24 hr 8.2	8.2 gal/hr Diesel	34,637	0 0	6,927	25,978	1,732	0
		Crane - Picker	Grove RT530E-2 30t	160 Hp III		0.02 nr		41,206	0 0	8.241	30,904	2.060	0
										7,980	29,924	1,995	0
		Crane - Picker	Grove RT600E - 50t	173 Hp III	7 12 Mo 60% 887	70 hr 0.02	6 4.5 gal/hr Diesel	39,899	0 0		29,924	1,995	
		Crane - Picker Boom Lift	Grove RT600E - 50t JLG 800AJ					39,899	0 0	3,427	12,849	857	0
		Crane - Picker Boom Lift Boom Lift - 80 ft	Grove RT600E - 50t JLG 800AJ Genie S-80	65 Hp III		38 hr 0.02	6 1.7 gal/hr Diesel	17,133 19,505		3,427 3,901	12,849 14,629	857 975	
		Boom Lift	JLG 800AJ	65 Hp III 74 Hp III	8 12 Mo 60% 1013	38 hr 0.02 38 hr 0.02	6 1.7 gal/hr Diesel 6 1.9 gal/hr Diesel	17,133	0 0	3,427	12,849	857	0
	Building Modules & Heavy Lifts	Boom Lift Boom Lift - 80 ft	JLG 800AJ Genie S-80 Lull 1044C-54	65 Hp III 74 Hp III 115 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013	38 hr 0.02 38 hr 0.02 38 hr 0.02	6 1.7 gal/hr Diesel 6 1.9 gal/hr Diesel 5 3.0 gal/hr Diesel	17,133 19,505 30,311	0 0 0 0 0 0	3,427 3,901 6,062	12,849 14,629 22,734	857 975 1,516	0 0 0
	Building Modules & Heavy Lifts	Boom Lift Boom Lift - 80 ft	JLG 800AJ Genie S-80 Lull 1044C-54 21000 - 1000t	65 Hp III 74 Hp III 115 Hp III 600 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84	38 hr 0.02 45 hr 12.6	5 1.7 gal/hr Diesel 5 1.9 gal/hr Diesel 5 3.0 gal/hr Diesel 12.6 gal/hr Diesel	17,133 19,505 30,311 10,644		3,427 3,901 6,062 0	12,849 14,629 22,734 5,322	857 975 1,516 5,322	0
		Boom Lift Boom Lift - 80 ft Rough Terrain Extended Forklift	JLG 800AJ Genie S-80 Lull 1044C-54	65 Hp III 74 Hp III 115 Hp III 600 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84	38 hr 0.02 38 hr 0.02 38 hr 0.02	6 1.7 gal/hr Diesel 6 1.9 gal/hr Diesel 5 3.0 gal/hr Diesel	17,133 19,505 30,311	0 0 0 0 0 0	3,427 3,901 6,062	12,849 14,629 22,734	857 975 1,516	0 0 0
	Building Modules & Heavy Lifts Building Siding/Insulated Panels	Boom Lift Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc	JLG 800AJ Genie S-80 Lull 1044C-54 21000 - 1000t 31000 - 2300t	65 Hp III 74 Hp III 115 Hp III 600 Hp III 1,200 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 42	38 hr 0.02 45 hr 12.6 22 hr 24	1.7 gal/hr Diesel 1.9 gal/hr Diesel 3.0 gal/hr Diesel 12.6 gal/hr Diesel 24.0 gal/hr Diesel	17,133 19,505 30,311 10,644 10,138	0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069	12,849 14,629 22,734 5,322 5,069	857 975 1,516 5,322 0	0
		Boom Lift Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc	JLG 800AJ Genie S-80 Lull 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t	65 Hp III 74 Hp III 115 Hp III 600 Hp III 1,200 Hp III 160 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 42 2 6 Mo 50% 105	38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02	1.7 gal/hr Diesel 1.9 gal/hr Diesel 3.0 gal/hr Diesel 12.6 gal/hr Diesel 24.0 gal/hr Diesel 5 4.2 gal/hr	17,133 19,505 30,311 10,644 10,138 4,393		3,427 3,901 6,062 0 5,069	12,849 14,629 22,734 5,322 5,069 1,318	857 975 1,516 5,322 0 3,075	0 0 0 0
		Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft	JLG 800AJ Genie S-80 Lull 104C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80	65 Hp III 74 Hp III 115 Hp III 600 Hp III 1,200 Hp III 160 Hp III 74 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 2 6 Mo 50% 105 3 6 Mo 70% 22	38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 18 hr 0.02	1.7 gal/hr Diesel 1.9 gal/hr Diesel 3.0 gal/hr Diesel 12.6 gal/hr Diesel 24.0 gal/hr Diesel 5 1.2 gal/hr 0.1 gal/hr Diesel 1.2 gal/hr Diesel 1.9 gal/hr Diesel 1.9 gal/hr Diesel	17,133 19,505 30,311 10,644 10,138 4,393 4,267		3,427 3,901 6,062 0 5,069 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280	857 975 1,516 5,322 0 3,075 2,987	
		Boom Lift Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton	JLG 800AJ Genie S-80 Lull 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250	65 Hp III 74 Hp III 115 Hp III 600 Hp III 1,200 Hp III 160 Hp III 74 Hp III 300 Hp	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 2 6 Mo 50% 105 3 6 Mo 50% 105 3 6 Mo 70% 221 2 6 Mo 40% 84	38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 45 hr 0.02 45 hr 3	5 1.7 gal/hr Diesel 5 1.9 gal/hr Diesel 3.0 gal/hr Diesel 12.6 gal/hr Diesel 24.0 gal/hr Diesel 5 3.0 gal/hr 5 3.0 gal/hr 6 4.2 gal/hr 6 1.9 gal/hr 7 3.0 gal/hr 8 0.3 gal/hr 9 1.0 gal/hr 1.0 gal/hr Diesel	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760	857 975 1,516 5,322 0 3,075 2,987 1,774	0 0 0 0 0 0
		Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton	L.G 800AJ Genie S-80 Luii 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250	65 Hp III 74 Hp III 115 Hp III 115 Hp III 100 Hp III 1,200 Hp III 160 Hp III 74 Hp III 300 Hp III 300 Hp 300 Hp	8 12 Mo. 60% 1013 8 12 Mo. 60% 1013 8 12 Mo. 60% 1013 1 24 Mo. 60% 403 1 12 Mo. 20% 44 2 6 Mo. 50% 105 3 6 Mo. 70% 221 2 6 Mo. 40% 84 1 6 Mo. 40% 84	38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 18 hr 0.02 45 hr 0.02 45 hr 0.02 45 hr 0.02 45 hr 3 32 hr 3.5	5 1.7 gal/hr Diesel 5 1.9 gal/hr Diesel 5 3.0 gal/hr Diesel 24.0 gal/hr Diesel 5 4.2 gal/hr Diesel 5 4.2 gal/hr Diesel 5 3.0 gal/hr Diesel 5 4.2 gal/hr Diesel 3.0 gal/hr Diesel 3.5 gal/hr 3.5 gal/hr Case	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444	857 975 1,516 5,322 0 3,075 2,987 1,774 1,035	0 0 0 0 0 0 0 0 0
		Boom Lift Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton Pickup Truck 3/4 ton Material Tuck - 7/12 ton	J.G 800AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-850	65 Hp III 74 Hp III 115 Hp III 1,200 Hp III 1,200 Hp III 160 Hp III 300 Hp 300 Hp 270 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 1 12 Mo 20% 84 2 6 Mo 50% 105 3 6 Mo 70% 221 2 6 Mo 40% 44 1 6 Mo 60% 105 3 6 Mo 70% 84 1 6 Mo 60% 42 1 6 Mo 60% 42 1 6 Mo 60% 42	38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 18 hr 0.02 18 hr 0.02 25 hr 3 22 z z hr 3.5 28 hr 0.02	5 1.7 gal/hr Diesel 5 1.9 gal/hr Diesel 3.0 gal/hr Diesel Diesel 24.0 gal/hr Diesel Diesel 5 3.0 gal/hr Diesel 6 4.2 gal/hr Diesel 5 3.0 gal/hr Diesel 3.0 gal/hr Diesel 3.0 gal/hr 3.5 gal/hr Diesel 3.0 gal/hr 3.7 gal/hr Diesel 3.7 gal/hr	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112	857 975 1,516 5,322 0 3,075 2,987 1,774 1,035 2,595	
	Building Siding/Insulated Panels	Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton	L.G 800AJ Genie S-80 Luii 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250	65 Hp III 74 Hp III 115 Hp III 1,200 Hp III 1,200 Hp III 160 Hp III 300 Hp 300 Hp 270 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 1 12 Mo 20% 84 2 6 Mo 50% 105 3 6 Mo 70% 221 2 6 Mo 40% 44 1 6 Mo 60% 105 3 6 Mo 70% 84 1 6 Mo 60% 42 1 6 Mo 60% 42 1 6 Mo 60% 42	38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 18 hr 0.02 45 hr 0.02 45 hr 0.02 45 hr 0.02 45 hr 3 32 hr 3.5	5 1.7 gal/hr Diesel 5 1.9 gal/hr Diesel 3.0 gal/hr Diesel Diesel 24.0 gal/hr Diesel Diesel 5 3.0 gal/hr Diesel 6 4.2 gal/hr Diesel 5 3.0 gal/hr Diesel 3.0 gal/hr Diesel Diesel 3.5 gal/hr Diesel 3.5 gal/hr 3.7.0 gal/hr Diesel Diesel	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444	857 975 1,516 5,322 0 3,075 2,987 1,774 1,035	0 0 0 0 0 0 0 0 0
		Boom Lift Boom Lift - 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton (Licensed for offaite use) Material truck 2-1/2 ton Rough Terrain Extended Forklift	J.G. B00AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-650 Luil 1044C-54	65 Hp III 74 Hp III 115 Hp III 15 Hp III 1,200 Hp III 1,200 Hp III 160 Hp III 74 Hp III 300 Hp III 300 Hp 270 Hp 115 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 1 12 Mo 20% 84 2 6 Mo 50% 105 3 6 Mo 70% 821 2 6 Mo 50% 105 3 6 Mo 70% 821 2 6 Mo 40% 44 1 6 Mo 50% 105 4 6 Mo 60% 42 1 6 Mo 50% 105 4 10 6 Mo 50% 105	38 hr 0.02 56 hr 0.02 18 hr 0.02 15 hr 3.5 28 hr 0.02 56 hr 0.02	1.7 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel 2.6 gal/m Diesel 2.4.0 gal/m Diesel 2.4.0 gal/m Diesel 3.0 gal/m Diesel	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707 3,157	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112 947	857 975 1,516 5,322 0 3,075 2,987 1,774 1,035 2,595 2,210	
	Building Siding/Insulated Panels	Boom Lift Boom Lift Boom Lift 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton Pickup Truck 3/4 ton Rough Terrain Extended Forklift Crane - Picker	JLG B00AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 Luil 1044C-54 Grove RT530E-2 30t	65 Hp III 74 Hp III 115 Hp III 100 Hp III 1,200 Hp III 160 Hp III 74 Hp III 300 Hp 270 Hp III 115 Hp III 115 Hp III 160 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 1 12 Mo 20% 42 2 6 Mo 50% 105 3 6 Mo 70% 221 6 Mo 40% 44 1 6 Mo 40% 42 1 6 Mo 50% 52 2 6 Mo 54% 95	38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 45 hr 3.2 22 hr 3.5 28 hr 0.02 56 hr 0.02	5 1.7 gal/hr Diesel 5 1.9 gal/hr Diesel 3.0 gal/hr Diesel 24.0 gal/hr Diesel 24.0 gal/hr Diesel 3.0 gal/hr Diesel	17, 133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707 3,157 3,954	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112 947 0	857 975 1,516 5,322 0 3,075 2,987 1,774 1,035 2,595 2,210 3,954	
	Building Siding/Insulated Panels	Boom Lift Boom Lift = 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift = 80 ft Pickup Truck 3/4 ton (Licensed for offsite use) Material truck 2-1/2 ton Rough Terrain Extended Forklift Crane - Picker Boom Lift = 80 ft	LLG B00AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250 Luil 1044C-54 Grove RT530E-2 30t Genie S-80	65 Hp III 74 Hp III 115 Hp III 1260 Hp III 1,200 Hp III 160 Hp III 74 Hp III 160 Hp III 74 Hp III 300 Hp III 270 Hp III 115 Hp III 115 Hp III 176 Hp III 176 Hp III	8 12 Mo. 60% 1013 8 12 Mo. 60% 1013 8 12 Mo. 60% 1013 9 12 Mo. 60% 1013 1 12 Mo. 20% 44 2 6 Mo. 50% 105 3 6 Mo. 70% 221 2 6 Mo. 40% 84 1 6 Mo. 50% 105 2 6 Mo. 50% 522 2 6 Mo. 50% 522 2 6 Mo. 50% 505 2 6 Mo. 50% 505 2 6 Mo. 50% 505 2 6 Mo. 45% 95 3 6 Mo. 45% 95	38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 45 hr 3 22 hr 3 24 hr 3 25 hr 0.02 56 hr 0.02 56 hr 0.02 56 hr 0.02 50 hr 0.02 50 hr 0.02 50 hr 0.02	5 1.7 gal/hr Diesel 1.9 gal/hr Diesel 3.0 gal/hr Diesel 3.0 gal/hr Diesel 24.0 gal/hr Diesel 24.0 gal/hr Diesel 3.0 gal/hr Diesel 3.0 gal/hr Diesel 3.0 gal/hr Diesel	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707 3,707 3,707 3,954 2,743		3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112 947	857 975 1,516 5,322 0 3,075 2,967 1,774 1,035 2,595 2,210 3,954 2,743	
	Building Siding/Insulated Panels	Boom Lift Boom Lift = 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton Rough Terrain Extended Forklift Crane - Picker Boom Lift - 80 ft Pickup Tuck 3/4 ton	JLG 800AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250 Luil 1044C-54 Grove RT530E-2 30t Genie S-80 F-250	65 Hp III 74 Hp III 115 Hp III 600 Hp III 1,200 Hp III 160 Hp III 160 Hp III 175 Hp III 300 Hp III 115 Hp III 115 Hp III 115 Hp III 160 Hp III 300 Hp III 115 Hp III 160 Hp III 177 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 84 1 12 Mo 20% 84 1 24 Mo 20% 84 1 12 Mo 20% 84 2 6 Mo 50% 105 3 6 Mo 40% 44 1 6 Mo 40% 44 1 6 Mo 50% 105 2 6 Mo 50% 105 2 6 Mo 50% 105 3 6 Mo 45% 95 3 6 Mo 45% 142	38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 16 hr 0.02 16 hr 0.02 25 hr 3 22 hr 3	1.7 gal/hr Diesel 1.9 gal/hr Diesel 3.0 gal/hr Diesel 12.6 gal/hr Diesel 12.6 gal/hr Diesel 12.6 gal/hr Diesel 14.0 gal/hr Diesel 15.9 gal/hr Diesel 16.9 gal/hr Diesel 17.0 gal/hr Diesel 3.0 gal/hr Diesel	17,133 19,505 30,311 10,644 10,138 4,383 4,267 2,554 1,478 3,707 3,157 3,954 2,743 1,267	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112 947 0 0 0	857 975 1,516 5,322 0 3,075 2,987 1,774 1,035 2,595 2,210 3,954 2,743 1,267	
	Building Siding/Insulated Panels	Boom Lift Boom L	JLG B00AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250 Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250	65 Hp III 74 Hp III 115 Hp III 15 Hp III 1200 Hp III 1200 Hp III 160 Hp III 74 Hp III 300 Hp 270 Hp 200 Hp III 115 Hp III 74 Hp III 300 Hp III 74 Hp III 74 Hp III 74 Hp III 300 Hp III 74 Hp III 300 Hp 300 Hp	8 12 Mo 60% 1013 8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 84 1 12 Mo 20% 42 2 6 Mo 50% 105 3 6 Mo 70% 221 2 6 Mo 40% 42 1 6 Mo 40% 42 2 6 Mo 50% 105 2 6 Mo 50% 50 2 6 Mo 50% 105 2 6 Mo 50% 105 2 6 Mo 50% 105 2 6 Mo 45% 142 1 6 Mo 40% 42	38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 10.02 45 hr 10.02 56 hr 0.02 16 hr 0.02 16 hr 0.02 56 hr 0.02 27 hr 3.5 28 hr 3.5	5 1.7 gal/hr Diesel 5 9.8 gal/hr Diesel 3.0 gal/hr Diesel 24.0 gal/hr Diesel 24.0 gal/hr Diesel 24.0 gal/hr Diesel 3.0 gal/hr Cias 3.0 gal/hr Cias 3.0 gal/hr Cias	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707 3,157 3,954 2,743 1,267 1,478	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 7,660 7,6	857 975 1,516 3,075 2,987 1,774 1,035 2,595 2,210 3,954 2,743 1,267 1,478	
	Building Siding/Insulated Panels	Boom Lift Boom Lift = 80 ft Rough Terrain Extended Forklift Crane - Manitowoc Crane - Manitowoc Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton Rough Terrain Extended Forklift Crane - Picker Boom Lift - 80 ft Pickup Truck 3/4 ton Pickup Truck 3/4 ton Pickup Truck 3/4 ton Pickup Truck 3/4 ton Pickup Truck 3/4 ton	JLG 800AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 Luil 1044C-54 Luil 1044C-54 Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250 F-250	65 Hp III 74 Hp III 74 Hp III 115 Hp III 100 Hp III 1,200 Hp III 160 Hp III 300 Hp III 270 Hp III 115 Hp III 160 Hp III 300 Hp III 160 Hp III 300 Hp III 300 Hp III 300 Hp III 300 Hp III 270 Hp III 300 Hp III 300 Hp III 300 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 844 1 12 Mo 20% 844 1 12 Mo 20% 844 2 6 Mo 50% 105 3 6 Mo 70% 821 4 1 6 Mo 50% 105 3 6 Mo 40% 44 1 6 Mo 50% 105 2 6 Mo 50% 105 2 6 Mo 50% 105 3 6 Mo 45% 142 1 6 Mo 45% 142 1 6 Mo 40% 42 1 6 Mo 50% 42 </td <td>38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 45 hr 0.02 56 hr 0.02 50 hr 0.02 56 hr 0.02 50 hr 0.02 50 hr 0.02 22 hr 3.5 22 hr 3.5 28 hr 0.02 20 hr 0.5 82 hr 0.02</td> <td>1.7 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 14.0 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel</td> <td>17, 133 19, 505 30, 311 10, 644 10, 138 4, 267 2, 534 1, 478 3, 707 3, 157 3, 954 4, 267 1, 478 3, 954 1, 267 1, 478 3, 707</td> <td></td> <td>3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112 947 0 0 0</td> <td>857 975 1,516 3,075 2,987 1,774 1,035 2,595 2,210 3,954 2,743 1,267 1,478 3,707</td> <td></td>	38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 12.6 22 hr 24 56 hr 0.02 45 hr 0.02 56 hr 0.02 50 hr 0.02 56 hr 0.02 50 hr 0.02 50 hr 0.02 22 hr 3.5 22 hr 3.5 28 hr 0.02 20 hr 0.5 82 hr 0.02	1.7 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 14.0 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel	17, 133 19, 505 30, 311 10, 644 10, 138 4, 267 2, 534 1, 478 3, 707 3, 157 3, 954 4, 267 1, 478 3, 954 1, 267 1, 478 3, 707		3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 760 444 1,112 947 0 0 0	857 975 1,516 3,075 2,987 1,774 1,035 2,595 2,210 3,954 2,743 1,267 1,478 3,707	
	Building Siding/Insulated Panels	Boom Lift Boom L	JLG B00AJ Genie S-80 Luil 1044C-54 21000 - 1000t 31000 - 2300t Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250 Grove RT530E-2 30t Genie S-80 F-250 F-250 F-250 F-250	65 Hp III 74 Hp III 74 Hp III 115 Hp III 100 Hp III 1,200 Hp III 160 Hp III 300 Hp III 270 Hp III 115 Hp III 160 Hp III 300 Hp III 160 Hp III 300 Hp III 300 Hp III 300 Hp III 300 Hp III 270 Hp III 300 Hp III 300 Hp III 300 Hp III	8 12 Mo 60% 1013 8 12 Mo 60% 1013 9 12 Mo 60% 1013 1 24 Mo 20% 844 1 12 Mo 20% 844 1 12 Mo 20% 844 2 6 Mo 50% 105 3 6 Mo 70% 821 4 1 6 Mo 50% 105 3 6 Mo 40% 44 1 6 Mo 50% 105 2 6 Mo 50% 105 2 6 Mo 50% 105 3 6 Mo 45% 142 1 6 Mo 45% 142 1 6 Mo 40% 42 1 6 Mo 50% 42 </td <td>38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 10.02 45 hr 10.02 56 hr 0.02 16 hr 0.02 16 hr 0.02 56 hr 0.02 27 hr 3.5 28 hr 3.5</td> <td>1.7 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 14.0 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel</td> <td>17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707 3,157 3,954 2,743 1,267 1,478</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>12,849 14,629 22,734 5,322 5,069 1,318 1,280 7,660 7,6</td> <td>857 975 1,516 3,075 2,987 1,774 1,035 2,595 2,210 3,954 2,743 1,267 1,478</td> <td></td>	38 hr 0.02 38 hr 0.02 38 hr 0.02 38 hr 0.02 45 hr 10.02 45 hr 10.02 56 hr 0.02 16 hr 0.02 16 hr 0.02 56 hr 0.02 27 hr 3.5 28 hr 3.5	1.7 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 12.6 gal/m Diesel 14.0 gal/m Diesel 1.9 gal/m Diesel 3.0 gal/m Diesel	17,133 19,505 30,311 10,644 10,138 4,393 4,267 2,534 1,478 3,707 3,157 3,954 2,743 1,267 1,478	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,427 3,901 6,062 0 5,069 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12,849 14,629 22,734 5,322 5,069 1,318 1,280 7,660 7,6	857 975 1,516 3,075 2,987 1,774 1,035 2,595 2,210 3,954 2,743 1,267 1,478	

Bell E	tar Nuclear 3end Nuclear Power Plant truction Vehicle Fuel Consumption Study			Total				2 - Page		elated wo	rk)										Report No: Pro	SL-0100 oject No. 1	
	IIIA. Mechanical Installation																						
100%	Mechanical Installation		DTERRE O ANI	1.40	0.11-1			10 11-	4004	44704 -		0.000	4.0	ality Dissel	64 504	0	0	12,300	30,75	12,3	00	3,150	
	Including:	Crane - Picker Crane - Picker	Grove RT530E-2 30t Grove RT600E - 50t		0 Hp 3 Hp			42 Mo 12 Mo		14784 hr 2534 hr		0.026		gal/hr Diesel gal/hr Diesel	61,501 11,400	0	0	2,280	5,70			1,140	
	Piping, Hangers & Pipe Specialties Valves and Actuators	Crane - Lattice Boom	Manitowoc 555 - 150t					12 Mo		4224 hr		0.020		gal/hr Diesel	26,611	0		5,322	13,30			2.661	
	HVAC Ductwork, Dampers, Actuators, Fans	Crane - Lattice Boom	Manitowoc 999 - 275t		0 Hp			12 Mo		1690 hr				gal/hr Diesel	13,855	0		2,771	6.92			1,385	(
	Pump, chillers, coolers, Hx, Equipment	Crane - Lattice Boom	Manitowoc16000 - 440t		0 Hp			12 Mo		845 hr				gal/hr Diesel	8,786	0	0	1,757	4,39	1,7	57	879	(
	Air compressors	Boom Lift	JLG 800AJ		5 Hp			12 Mo		5280 hr		0.026		gal/hr Diesel	8,923	0		1,785	4,46			892	(
	Examination, Testing & Start-up	Boom Lift - 80 ft	Genie S-80		4 Hp	111		12 Mo		5280 hr		0.026		gal/hr Diesel	10,159	0	0	2,032	5,07			1,016	(
		Pickup Truck 3/4 ton	F-250 F-250		0 Hp			24 Mo		5069 hr				gal/hr Diesel	15,206	0	0	3,041	7,60			1,521 776	
		Pickup Truck 3/4 ton (Licensed for offsite use) Material truck 2-1/2 ton	F-650		0 Hp	10		42 Mo 42 Mo		2218 hr 4435 hr	3.5	0.026		gal/hr Gas gal/hr Diesel	31,135	0	0	6,227	15,56			3.114	
		Rough Terrain Extended Forklift	Lull 1044C-54		5 Hp			42 Mo		5914 hr		0.026		gal/hr Diesel	17,682	0	0	5,304	7,07			2,652	Ċ
1	PART IIIA GAS			a leste				2.1.1							7,762	0		1,552	3,88			776	C
1.11.11.1	PART IIIA DIESEL														187,576	0	0	37,515	93,78	3 37,5	15 18	3,758	0
	IIIB. Electrical Installation	an an an an Anna																					
100%	Electrical Installation	Crane - Picker	Grove RT530E-2 30t	40	0 Hp	111	5	42 Mo	60%	4435,2	1 1	0.026	4.2	gal/hr Diesel	18,450	0	0	2.768	7.38	3.6	20	2,768	1,845
	Including: Conduit, Cable Tray Raceway & Supports	Crane - Picker Crane - Picker	Grove RT530E-2 30t Grove RT600E - 50t					42 MO 12 MO		4435.2 3168 hr		0.026		gal/hr Diesel	14,250	0	0	2,766	5,70			2,137	1,040
	Instrumentation (Racks, mounting, transmitters)	Crane - Lattice Boom	Manitowoc 555 - 150t		5 Hp	1		12 Mo		5280 hr	6.3	0.020		gal/hr Diesel	33,264	0		4,990	13,30			4,990	3,326
	Power & Control Cable & Terminations	Crane - Lattice Boom	Manitowoc 999 - 275t		0 Hp	III		12 Mo		2112 hr				gal/hr Diesel	17,318	0		2,598	6,92	3,4	54 3	2,598	1,732
	Isophase and nonsegregated bus duct	Crane - Lattice Boom	Manitowoc16000 - 440t	50	0 Hp	III	1	12 Mo	50%	1056 hr	10.4		10.4	gal/hr Diesel	10,982	0	0	1,647	4,39			1,647	1,098
	Control room panels, wiring and termination	Boom Lift	JLG 800AJ		5 Hp			12 Mo		5280 hr		0.026		gal/hr Diesel	8,923	0	0	1,338	3,56			1,338	892
	Local Instrument and control equipment	Boom Lift - 80 ft	Genie S-80		4 Hp			12 Mo		5280 hr		0.026		gal/hr Diesel	10,159	0	0	1,524	4,06			1,524	1,016
	Switchyard Breakers & Equipment	Crane - Lattice Boom	Manitowoc 555 - 150t		5 Hp	Ш	···· * * * · · · · ·	12 Mo		845 hr				gal/hr Diesel	5,322	0	0	798	2,12			798	532
	Equipment and site grounding	Pickup Truck 3/4 ton	F-250 F-250		0 Hp 0 Hp			24 Mo 42 Mo		5069 hr 2218 hr				gal/hr Diesel gal/hr Gas	15,206	0	0	2,281	6,08 3.10			2,281	1,521
	Communications and data systems Examination, Testing & Start-up	Pickup Truck 3/4 ton (Licensed for offsite use) Rough Terrain Extended Forklift	Lull 1044C-54		5 Hp	н		42 Mo.		5914 hr		0.026		al/hr Diesel	17.682	0		2.652	7,07			2.652	1.768
	PART IIIB GAS	Rough Ferrain Extended Forkin	Lui 10440-04		onp	All and a second second	and the second second	12 1110.	4070	001111		0.020	0.0	Jurin Dicoci	7,762	0	0	1,164	3.10			1.164	776
	PART IIIB DIESEL	The second s											311 A.M.	The second second	151,557	0	0	22.734	60.62	30,3	11 27	2,734	15,156
100%	IV. Major equipment (heavy) lift and movement				94. SAN	ala kan	(an production)			(assessment)			an a	Carl March 1997			a a paga a basa	and the second second				Super-Sec. 14	and the second second
	Including: Including: Including:		La management																211				
	Transformers and switchgear	Crane - Lattice Boom	Manitowoc16000 - 440t		0 Hp	111		12 Mo	25%	528 hr				gal/hr Diesel	5,491	0	0	549	1,64			275	275 333
	Large Motor installations	Crane - Lattice Boom	Manitowoc21000 - 1000t Goldhoffer		0 Hp			12 Mo 00 Hr	25%	528 hr 300 hr	12.6	0.025		gal/hr Diesel	6,653	0	0	665	1,99			333	333
	Reactor vessel, S/G, Containment Liner assemblies Turbine and generator parts and pieces	Heavy Transporter Heavy Transporter	Goldhoffer		0 Hp 0 Hp			00 Hr	1010	300 hr		0.025		gal/hr Diesel	4,500	0		0	1,80			0	0
	Moisture separators, FW Heaters,	Heavy Transporter	Goldhoffer					00 Hr		300 hr		0.025		gal/hr Diesel	4,500	0	0	0	1,80			0	0
- Aller and a	PART IV GAS					1. 1. 1. 1. 1.								, , ,	0	0	0	0			0	0	0
	PART IV DIESEL	a successive the same successive and		S. Per al											25,644	0	0	1,214	9,04	14,1	72	607	607
100%	V. Construction & Site Support		an and a second data and	a states								an realis							len et al la sector de la sector	or proceeding the	ining the Co	ern startig	1.00
	Including:	Crane - Picker	Grove RT530E-2 30t		0 Hp			68 Mo		11968 hr		0.026		gal/hr Diesel	49,787	0	2,489	7,468	9,95			9,957	9,957
	Service vehicles	Boom Lift - 80 ft	Genie S-80		4 Hp	111		68 Mo	25%	8976 hr		0.026		gal/hr Diesel	17,270	0	863 1,346	2,590	3,45			3,454 5,386	3,454
	Janitorial / Garbage collection	Pickup Truck 3/4 ton Pickup Truck 3/4 ton (Licensed for offsite use)	F-250 F-250		0 Hp 0 Hp			68 Mo 68 Mo	25%	8976 hr 1197 hr				gal/hr Diesel gal/hr Gas	26,928 4,189	0	209	4,039	1,04			838	5,380
	Snow plowing and road maintenance Portable lighting	Material truck 2-1/2 ton	F-650		0 Hp	m		68 Mo		2992 hr	3.5	0.026		gal/hr Diesel	21,004	0	1,050	3,151	5,25			4,201	3,151
	Portable generators	RR switch engine	Estimated 600 Hp		0 Hp			68 Mo		1197 hr		0.026		al/hr Diesel	18,670	0	934	2,801	4.66			3,734	2,801
	Welders	Welders		<501											0								
	Air compressors	Air Compressors		<50 1								1.1			0	5. 6 C 6.	10 A 10 A		e se de la dec	1		1 A.	A .
	Portable lighting	Portable Lighting		<50	lp					100			80- 10-		0					1.1			_
	DADTWOAS									a a a a a a a a a a a a a a a a a a a					0 4,189		000	000	1.04		38	838	0.00
	PART V GAS PART V DIESEL				234		State of the								4,189	0		628 20,049	28,71			838 5,732	628 24,748
00%	VI. Final site work/Grading			with south											100,000	0	5,000	20,540		dans particular and the			
5070	Topsoil Restoration - 124,200 cy	Tracked Dozer	Cat D9	41	0 Hp	111	3	8 Mo	60%	2534 hr	15		15.0	gal/hr Diesel	38,016	0	0	0			0	7,603	30,413
		Tracked Dozer	Cat D7	23	5 Hp	111	3	8 Mo	60%	2534 hr	9		9.0	gal/hr Diesel	22,810	0	0	0		Contraction of the second second second		4,562	18,248
		Excavator - Medium	Cat 321D		8 Hp		1	8 Mo		704 hr	5			gal/hr Diesel	3,520	0)	0	704	2,816
		Semi-Trailer Dump	Mack E8		0 Hp		6	8 Mo	50%	4224 hr		0.026		gal/hr Diesel	43,930	0	0	0		5 Self - General Marcelline		8,786	35,144
		Motor Grader	Cat 14M			111	2	8 Mo		1690 hr				gal/hr Diesel	18,586	0	0	0		Contraction of the second		3,717	14,86
		Vibratory Soil Compactor	Cat CS74		6 Hp	10	3	8 Mo		2534 hr	6			gal/hr Diesel	15,206	0	0	0	<u></u>		0 3	3,041 507	12,16
		Pickup Truck 3/4 ton	F-250 F-250		0 Hp 0 Hp		2	8 Mo 8 Mo		845 hr 704 hr	3.5			gal/hr Diesel gal/hr Gas	2,534	0	0	0			0	493	1,97
		Pickup Truck 3/4 ton (Licensed for offsite use) Fuel Truck	H-200 Mack MP6				1	8 Mo		141 hr				gal/hr Diesel	493	0	0	0			0	99	394
		Rough Terrain Extended Forklift	Lull 1044C-54		5 Hp		2	8 Mo		845 hr	3.0	0.026		gal/hr Diesel	2.526	0	0	0			0	505	2,021
		Material truck 2-1/2 ton	F-650		0 Hp			8 Mo		422 hr	t t	0.026		gal/hr Diesel	2,965	0	0	Ő			0	593	2,372
	PART VI GAS		and the second second	1. 1. 1. 1. 1. 1.	a series		(1. Spell	1000			1000		Stan Law		2,464	0	0	0			0	493	1.971
10.000	PART VI DIESEL	a loss of the second		-	10.00	and the second second second	Contractor of the	No. of Cold Street or other	ALC: NO. OF STREET, ST.		A STATE OF THE OWNER	CARLS OF STREET, STREE	WALLBACK DE P	San tradition of the state of the	150,586	0	0	0	and the second second	And the second se	0 30	0.117	120,468

Bell	star Nuclear Bend Nuclear Power Plant struction Vehicle Fuel Consumption Study		Tota	Attachme Worksheet 1 of 2 I Fuel Usage (Safety and									Rep	port No: SL-0' Project N	10055, Rev No. 12198-4
	Section 2 Commercial/Construction Deliveries	Deliveries	Quantity	Unit	Distance	Fuel rate mi/gal	Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year7
0.000	Construction deliveries and related traffic	15 Tons per Shipment		<u> </u>		mirgai									
	Civil Material														
00%	Construction Equipment Mobilization/Removal	500 moves on + 500 off	1,000	shipments	50 mi	6.5 mi/gal			1,538	2,308					
00%	Concrete Material (Sand, stone, cement, admixtures)	848,362 tons	56,557	shipments	50 mi	6.5 mi/gal			21,753	87,011	130,517		43,506	21,753	21,75
00%	Lean Concrete Materials	200,000 cy	13,333	shipments	50 mi	6.5 mi/gal			0	51,282					
00%	Engineered fill	500,000 cy	33,333	shipments	50 mi	6.5 mi/gal			0	128,205					
00%	Cohesive fill	800,000 cy	53,333	shipments	50 mi	6.5 mi/gal			0						
00%	Formwork	2,393 tons	160	shipments	50 mi	6.5 mi/gal			61	245					
00%	Rebar	55,331 tons 6,261 tons	3,689 417	shipments	50 mi 75 mi	6.5 mi/gal			1,419	5,675 482					
00%	Structural Steel			shipments		6.5 mi/gal			0						
00%	Misc. Steel Mod Steel	1,016 tons 225 tons	68 15	shipments	75 mi 75 mi	6.5 mi/gal 6.5 mi/gal			0	0					
00%	Steel Liner	1,412 tons	94	shipments	75 mi	6.5 mi/gal			0						
00%	Embedded Steel	1,412 tons	127	shipments	75 mi	6.5 mi/gal			0	220					
00%	Siding & Roofing	2.056 tons	137	shipments	50 mi	6.5 mi/gal			0						
00%	Asphalt	21,850 tons	1.457	shipments	50 mi	6.5 mi/gal			0						
00%	Pre engineered building	60 tons	4	shipments	50 mi	6.5 mi/gal		31 gal	0	31			-		
00%	Construction Debris	12.000 tons	800	shipments	50 mi	6.5 mi/gal			615	615					
0070	Piping and Mechanical Material	7,500 tons	500			oto mingui	Dieder	0,101 gai	010	0.0	ULU	1,201	020		02
00%	Large and Small bore pipe	7.500 tons	500	shipments	75 mi	6.5 mi/gal	Diesel	5,769 gal	0	0	1,154	2.019	1,731	577	28
00%	Large bore hangers	2,788 tons	186	shipments	75 mi	6.5 mi/gal		2,145 gal	0	0			643		
00%	Nuclear Island EM package equipment	15,377 tons	1,025	shipments	150 mi	6.5 mi/gal		23,657 gal	0	0			7,097	2,366	1,18
00%	Turbine Island and BOP Mechanical Equipment	Estimated	1000	shipments	150 mi	6.5 mi/gal	Diesel	23,077 gal	0	0	4,615	8,077	6,923	2,308	1,15
00%	Consumables	Estimated	1000	shipments	50 mi	8.0 mi/gal	Gas	6,250 gal	0	0	1,250	2,188	1,875	625	31
	Electrical Equipment														
00%	Conduit	1,356 tons	90	shipments	50 mi	6.5 mi/gal		692 gal	0	0					
00%	Cable Tray	75 tons	49	shipments	50 mi	6.5 mi/gal		377 gal	0	0					
00%	Power & Control wire	4,406 tons	294	shipments	75 mi	6.5 mi/gal		3,389 gal	0	0			1,186		
00%	NI Electrical Equipment	5,000 tons	333	shipments	150 mi	8.0 mi/gal		6,250 gal	0	0			2,188		62
00%	TI Electrical Equipment	5,000 tons	333	shipments	150 mi	8.0 mi/gal	Gas	6,250 gal	0	0	938	1,875	2,188	625	62
	Site Support Services														
00%	Fuel deliveries	Based on fuel usage from Section 1	827	shipments	50 mi	6.5 mi/gal		6,364 gal	1,273	1,591					63
00%	Vendor deliveries	4 /day	5984	trips	50 mi	15.0 mi/gal		19,947 gal	0	997	4,987	4,987	4,987	1,995	1,99
00%	Equipment service calls COMMERCIAL/DELIVERIES GAS	3 /day	4488	trips	50 mi	18.0 mi/gal	Gas	12,467 gal	0	623 1.621			1,870 13,107	3,740 7 610	3,74 7,29
	COMMERCIAL/DELIVERIES DIESEL							51,163 1.333.817	0 26.660					33.602	
man a	COMMERCIAL/DELIVERIES DIESEL				Average	- A A A A A A A A A A A A A A A A A A A		1,333,017	≥0,000	466,155	040,010	(42,009	00,167	33,002	32,00
	Section 3	Average Workforce KLD Traffic Study	Commuters = 1.3		Round	Average									
00%	Workforce Commute	Const Staffing Profile RFI EPR-11-039	person/car		trip	Fuel rate	Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year7
		controlating frome tiff Effects	personneur		Distance	(mi/gal)									
	Year 1	150	115		50 mi	20.0 mi/gal	Gas	82,800	82,800						
					50 mi	18.0 mi/gal		8,000	8,000	the second s		<u></u>			
	Year 2	550	423		50 mi	20.0 mi/gal		303,600		303,600					
					50 mi	18.0 mi/gal		29,333		29,333					
	Year 3	1950	1,500		50 mi	20.0 mi/gal	Gas	1,076,400			1,076,400	[
			2.2 I I I I I I I I I I I I I I I I I I		50 mi	18.0 mi/gal	Diesel	104,000			104,000			12	
ea 160 - 1	Year 4	3800	2,923		50 mi	20.0 mi/gal	Gas	2,097,600	1			2,097,600			
					50 mi	18.0 mi/gal		202,667				202,667			
	Year 5	3800	2,923		50 mi	20.0 mi/gal		2,097,600					2,097,600	i i an ann	- 10
					50 mi	18.0 mi/gal		202,667				S	202,667		
2.14	Year 6	2000	1,538	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 mi	20.0 mi/gal		1,104,000			941 -			1,104,000	
			in the second		50 mi	18.0 mi/gal		106,667						106,667	
	Year 7	400	308		50 mi	20.0 mi/gal		220,800							220,80
	WORK FORCE COMMUTE GAS				50 mi	18.0 mi/gal	Diesel	21,333							21,33
								6 762 000	82.800	303.600	1.076 400	2 097.600	2.097 600	1 104.000	

UniStar Nuclear Bell Bend Nuclear Power Plant Construction Vehicle Fuel Consumption Study

Attachment 1 Worksheet 1 of 2 - Page 6 of 6 Total Fuel Usage (Safety and Non-safety related work)

Report No: SL-010055, Rev. 2 Project No. 12198-434

Fuel Consumption Summary Non-Road Equipment Summary							Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year7
Luzern County	100%						Diesel	4,854,651	1,317,916	1,350,552	786,782	693,655	376,093	142,040	187
				222			Gas	109,169	11,004	14,298	27,546	26,993	18,394	5,821	5
Construction Deliveries Summary							Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year
Wyoming, Lackawanna, Luzern, and Monroe	45%					in the second second	Diesel	600,218	11,997	218,770	245,977	64,143	29,784	15,121	14
							Gas	23,024	0	729	3,931	5,757	5,898	3,424	3
ehigh, Carbon, Northampton, and Lancaster	10%						Diesel	133,382	2,666	48,615	54,662	14,254	6,619	3,360	
				_			Gas	5,116	0	162	874	1,279	1,311	761	
Columbia, Schuykill	45%						Diesel	600,218	11,997	218,770	245,977	64,143	29,784	15,121	14
					(1		Gas	23,024	0	729	3,931	5,757	5,898	3,424	3
Total						1	Diesel	1,333,817	26,660	486,155	546,615	142,539	66,187	33,602	32
							Gas	51,163	0	1,621	8,735	12,794	13,107	7,610	
Workforce Commute							Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Yea
Carbon	16%						Diesel	107,947	1,280	4,693	16,640	32,427	32,427	17,067	
						1.00	Gas	1,117,248	13,248	48,576	172,224	335,616	335,616	176,640	3
Columbia	15%						Diesel	101,200	1,200	4,400	15,600	30,400	30,400	16,000	3
							Gas	1,047,420	12,420	45,540	161,460	314,640	314,640	165,600	33
Lackawanna	8%						Diesel	53,973	640	2,347	8,320	16,213	16,213	8,533	1
						1.00	Gas	558,624	6,624	24,288	86,112	167,808	167,808	88,320	1
Luzerne	44%						Diesel	296,853	3,520	12,907	45,760	89,173	89,173	46,933	9
							Gas	3,072,432	36,432	133,584	473,616	922,944	922,944	485,760	9
Montour	4%						Diesel	26,987	320	1,173	4,160	8,107	8,107	4,267	
							Gas	279,312	3,312	12,144	43,056	83,904	83,904	44,160	
Northumberland	3%						Diesel	20,240	240	880	3,120	6,080	6,080	3,200	1001.00
							Gas	209,484	2,484	9,108	32,292	62,928	62,928	33,120	
Schuykill	10%						Diesel	67,467	800	2,933	10,400	20,267	20,267	10,667	
							Gas	698,280	8,280	30,360	107,640	209,760	209,760	110,400	2
Wyoming	1%						Diesel	6,747	80	293	1,040	2,027	2,027	1,067	2
							Gas	69,828	828	3,036	10,764	20,976	20,976	11,040	2
Total							Diesel	674,667	8,000	29,333	104,000	202,667	202,667	106,667	2
							Gas	6,982,800	82,800	303,600	1,076,400	2,097,600	2,097,600	1,104,000	22
Project Fuel Usage Summary			_				Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Yea
							Diesel	6,863,136	1,352,576	1,866,040	1,437,397	1,038,861	644,946	282,309	241
							Gas	7.143.133	93,804	319,519	1,112,681	2.137.387	2,129,100	1,117,431	23

Safety-	Section 1 Non-Road Construction Equipment	Equipment	Class/Model #	HP Tier Onty (on Site Wk%	Hours or g/h g/h/hp	Average Fuel Fuel To Rate	tal Fuel (Gal) Ye	ar 1 Year 2	Year 3	Year 4 Yea	ar 5 Year 6	Yea
	IA. Early Site Preparation												
0%	Clearing, Deforesting, Grubbing & Grading Including:	Tracked Dozer	Cat D10	700 Hp III 4	5 Mo 75%	3300 hr 20	20.0 gal/hr Diesel	0	0	0 0	o	0	ol
	Access Roads	Tracked Loader	CAT 973C	263 Hp III 3	5 Mo 75%	2475 hr 10	10.0 gal/hr Diesel	0	0	0 0	0	0	0
	Topsoil cut & stockpile	Excavator - Medium	Cat 321D	148 Hp III 3	5 Mo 60%	1980 hr 5	5.0 gal/hr Diesel	0	0	0 0	0		0
	Topsoil Removal- 503414 cy	Excavator - With tree attachment	Cat 345D L	380 Hp III 1	5 Mo 60%	660 hr 10	10.0 gal/hr Diesel	0	0	0 0	0	0	0
	Used for final grading - 128,000 cy Topsoil Stockpiled - 376257cy	Crane - Picker Semi-Trailer Dump	Grove RT530E-2 30t Mack MP8	160 Hp III 2 450 Hp III 10	5 Mo 40% 5 Mo 50%	880 hr 0.028 5500 hr 0.026	4.5 gal/hr Diesel 11.7 gal/hr Diesel	0	0	0 0	0	0	0
	Topson Stockpiled - 3762576y	Motor Grader	Cat 14M	259 Hp III 2	5 Mo 45%	990 hr 11	11.0 gal/hr Diesel	0	0	0 0	0		0
		Scraper	Cat 631G	462 Hp III 8	5 Mo 60%	5280 hr 16	16.0 gal/hr Diesel	0	0	0 0	0	0	0
		Scraper	Cat 631G	462 Hp III 3	5 Mo 60%	1980 hr 16	16.0 gal/hr Diesel	0	0	0 0	0		0
		Vibratory Soil Compactor Water Trucks	Cat CS74 Mack MP6	156 Hp III 1 150 Hp II 1	5 Mo 60% 5 Mo 40%	660 hr 6 440 hr 3.5	6.0 gal/hr Diesel 3.5 gal/hr Diesel	0	0	0 0	0	0	0
		Pickup Truck 3/4 ton	F-250	300 Hp 2	5 Mo 50%	1100 hr 3	3.0 gal/hr Diesel	0	0	0 0	0	0	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 2	5 Mo 50%	1100 hr 3.5	3.5 gal/hr Gas	0	0	0 0	0	0	0
		Fuel Truck	Mack MP6	150 Hp II 2	5 Mo 20%	440 hr 3.5 300 hr 4 0.026	3.5 gal/hr Diesel 4.0 gal/hr Diesel	0	0	0 0	0	0	0
	IB. Site Development & Excavation	Mechanic's Truck 2-1/2 ton	F-650	270 Hp III 1	5 Mo 30%	300 11 4 0.026	4.0 gaining Dieser	U.	0		U.	4	
	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposal												
%	- Intake Area, Switchyard, Northeast Laydown, West												
	Laydown Estimated Quantities:	Tracked Dozer/Ripper	Cat D10	700 Hp III 7	4 Mo 75%	4200 hr 20	20.0 gal/hr Diesel	0	0	0 0	0	0	0
	Removal - 870,471cy	Scraper	Cat 637G (dual engine)	962 Hp III 6	4 Mo 50%	2400 hr 32	32.0 gal/hr Diesel	0	0	0 0	0	0	0
-	Placement - 881,664cy	Excavator - Medium	Cat 321D	148 Hp III 1	4 Mo 60%	480 hr 5	5.0 gal/hr Diesel	0	0	0 0	0		0
		Tracked Loader Motor Grader	CAT 973C Cat 14M	263 Hp III 6 259 Hp III 1	4 Mo 70% 4 Mo 50%	3360 hr 10 400 hr 11	10.0 gal/hr Diesel 11.0 gal/hr Diesel	0	0	0 0	0	0	0
		Pickup Truck 3/4 ton	F-250	300 Hp 1	4 Mo 35%	280 hr 3	3.0 gal/hr Diesel	0	0	0 0	0		0
		Water Trucks	Mack MP6	150 Hp II 1	4 Mo 50%	400 hr 3.5	3.5 gal/hr Diesel	0	0	0 0	0		0
	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposal	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 2	4 Mo 40%	640 hr 3.5	3.5 gal/hr Gas	0	0	0 0	0	0	0
0%	- Powerblock (Includes GIS, Switchyard, Cooling												
	towers and North central laydown area)							-					-
	Estimated Quantities: Removal - 10,837,579 cy	Tracked Dozer/Ripper Tracked Dozer/Disk	Cat D10 Cat D9		13 Mo 60% 13 Mo 60%	6240 hr 20 1560 hr 15	20.0 gal/hr Diesel 15.0 gal/hr Diesel	0	0	0 0	0	0	0
	Placement - 2,681,000 cy	Tracked Loader	CAT 973C	263 Hp III 2	13 Mo 60%	3120 hr 10	10.0 gal/hr Diesel	0	0	0 0	0	0	0
		Scraper	Cat 637G (dual engine)		13 Mo 50%	19500 hr 32	32.0 gal/hr Diesel	0	0	0 0	0	0	0
10% 10%		Vibratory Soil Compactor Soil Compactor	Cat CS74 Cat 825H		13 Mo 45% 13 Mo 45%	2340 hr 6 2340 hr 18	6.0 gal/hr Diesel 18.0 gal/hr Diesel	1,404	281 5 842 1,6	62 562 85 1.685	0	0	0
10%		Excavator - Medium	Cat 321D		13 Mo 60%	3120 hr 5	5.0 gal/hr Diesel	9,212	0 1,0	0 0	0	0	0
		Tracked Loader	CAT 973C	263 Hp III 6	13 Mo 70%	10920 hr 10	10.0 gal/hr Diesel	0	0	0 0	0	in contract of the second second second	0
		Motor Grader	Cat 14M		13 Mo 50%	2600 hr 11	11.0 gal/hr Diesel	0	0	0 0	0		0
		Excavator - Large Off Road Truck (80 ton payload)	Cat 375L Cat 773		13 Mo 60% 13 Mo 45%	7800 hr 16 35100 hr 16	16.0 gal/hr Diesel 16.0 gal/hr Diesel	0	0	0 0	0	0	0
		Pickup Truck 3/4 ton	F-250		13 Mo 35%	2730 hr 3	3.0 gal/hr Diesel	0	0	0 0	0		0
		Water Trucks	Mack MP6	150 Hp II 2	13 Mo 50%	2600 hr 3.5	3.5 gal/hr Diesel	0	0	0 0	0	0	0
		Water Wagon 8000 gal	Cat 631G	462 Hp II 1	13 Mo 50%	1300 hr 16	16.0 gal/hr Diesel	0	0	0 0	0	0	0
80%		Mechanic's Truck 2-1/2 ton End Loader (Batch Plant)	F-650 Cat 966H	270 Hp III 2 262 Hp III 2	13 Mo 30% 4 Mo 50%	1560 hr 4 0.026 704 hr 5	4.0 gal/hr Diesel 5.0 gal/hr Diesel	2,816	0 2,1	0 0	0	0	0
80%		Concrete Truck	Mack MP6	150 Hp III 15	4 Mo 33%	3485 hr 3.5	3.5 gal/hr Diesel	9,757	0 7,3		0	0	0
		Pickup Truck 3/4 ton	F-250	300 Hp 1	13 Mo 50%	1300 hr 3	3.0 gal/hr Diesel	0	0	0 0	0	0	0
		Pickup Truck 3/4 ton (Licensed for offsite use) Fuel Truck	F-250 Mack MP6	300 Hp 2 150 Hp II 4	13 Mo 40% 13 Mo 20%	2080 hr 3.5 2080 hr 3.5	3.5 gal/hr Gas 3.5 gal/hr Diesel	0	0	0 0	0	0	0
0%	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposal	- def Fridek											-
70	- Parking	Treated Dages	Cot DZE	225 Ha III 2	5 Mo 75%	1500 hr 9	9.0 gal/hr Diesel	0]	0	0 0	0	0	0
	Estimated Quantities: Removal 287,820cy	Tracked Dozer Scraper	Cat D7E Cat 631G	235 Hp III 2 462 Hp III 1	5 Mo 75%	500 hr 16	16.0 gal/hr Diesel	0	0	0 0	0	0	0
	Placement 1,413,639 cy	Vibratory Soil Compactor	Cat CS74	156 Hp III 2	5 Mo 45%	900 hr 6	6.0 gal/hr Diesel	0	0	0 0	0	0	0
		Soil Compactor	Cat 825H	400 Hp III 2	5 Mo 45%	900 hr 18	18.0 gal/hr Diesel	0	0	0 0	0	0	0
_		Excavator - Medium Tracked Loader	Cat 321D CAT 973C	148 Hp III 1 263 Hp III 1	5 Mo 60% 5 Mo 70%	600 hr 5 700 hr 10	5.0 gal/hr Diesel 10.0 gal/hr Diesel	0	0	0 0	0	0	0
		Motor Grader	Cat 14M	259 Hp III 1	5 Mo 50%	500 hr 11	11.0 gal/hr Diesel	0	0	0 0	0	0	0
		Asphalt Paver	Barber GreeneAP-1000	174 Hp III 1	5 Mo 50%	500 hr 6	6.0 gal/hr Diesel	0	0	0 0	0		0
		Asphalt Compactor	Cat CB434C	107 Hp III 1	5 Mo 50%	500 hr 4	4.0 gal/hr Diesel	0	0	0 0	0	0	0
		Water Trucks Pickup Truck 3/4 ton	Mack MP6 F-250	150 Hp II 1 300 Hp 1	5 Mo 50% 5 Mo 35%	500 hr 3.5 350 hr 3	3.5 gal/hr Diesel 3.0 gal/hr Diesel	0	0	0 0	0	0	0
		Fuel Truck	Mack MP6		5 Mo 20%	200 hr 3.5	3.5 gal/hr Diesel	0	0	0 0	0	0	0
								TRATE BOTT THE REPORT OF COMMON			30		

ell Be	r Nuclear nd Nuclear Power Plant uction Vehicle Fuel Consumption Study				Attachr neet 2 of ty-related	2 - Page											lo: SL-01005 Project No. 1	
	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposal - Support road (Includes Quarry, Batch plant, Central laydown)																	
	Estimated Quantities:	Tracked Dozer	Cat D7E	235 Hp III	4	15 M	0 75%	9000 hr	9		9.0 gal/hr Diesel	0	0	0	0 0	0	0	-
-	Removal - 364,572 cy	Scraper	Cat 637G (dual engine)	962 Hp III	3		0 50%	4500 hr	32		32.0 gal/hr Diesel	Ő	0	0	0 0	0	o	
-	Placement - 2,819,652 cy	Vibratory Soil Compactor	Cat CS74	156 Hp III	1		0 45%	1350 hr	6		6.0 gal/hr Diesel	0	0	0	0 0	0	0	
-	1 ROCHIER - 2,010,002 0	Soil Compactor	Cat 825H	400 Hp III	2		0 45%	2700 hr	18		18.0 gal/hr Diesel	0	0	0	0 0	0	0	
		Excavator - Medium	Cat 321D	148 Hp III	2	15 M		3600 hr	5		5.0 gal/hr Diesel	0	0	0	0 0	0	0	100
		Tracked Loader	CAT 973C	263 Hp III	2	15 M		4200 hr	10		10.0 gal/hr Diesel	0	0	0	0 0	0	0	
		Motor Grader	Cat 14M	259 Hp III	2	8 M	0 50%	1600 hr	11		11.0 gal/hr Diesel	0	0	0	0 0	0	0	-
		Asphalt Paver	Barber GreeneAP-1000	174 Hp III	1	5 M	0 50%	500 hr	6		6.0 gal/hr Diesel	0	0	0	0 0	0	0	
		Asphalt Compactor	Cat CB434C	107 Hp III	1	5 M	0 50%	500 hr	4		4.0 gal/hr Diesel	0	0	0	0 0	0	0	
		Pickup Truck 3/4 ton	F-250	300 Hp	1	15 M	0 35%	1050 hr	3		3.0 gal/hr Diesel	0	0	0	0 0	0	0	
		Water Trucks	Mack MP6	150 Hp II	2	15 M	0 40%	2400 hr	3.5		3.5 gal/hr Diesel	0	0	0	0 0	0	0	
		Water Wagon 8000 gal	Cat 631G	462 Hp II	1	15 M	0 40%	1200 hr	18		18.0 gal/hr Diesel	0	0	0	0 0	0	0	
1		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp	2	15 M	0 50%	3000 hr	3.5		3.5 gal/hr Gas	0	0	0	0 0	0	0	
	Excavating/Backfilling/Earth/Soil/Rock Remove & Disposal - South Laydown																	
	Estimated Quantities:	Tracked Dozer	Cat D10	700 Hp III	4		0 75%	2400 hr			20.0 gal/hr Diesel	0	0	0	0 0	0	0	
	Removal - 142,188cy	Soil Compactor	Cat 825H	400 Hp III	1		0 45%	360 hr	18		18.0 gal/hr Diesel	0	0	0	0 0	0	0	
	Placement - 3,815,583cy	Excavator - Medium	Cat 321D	148 Hp III	3		60%	1440 hr	5		5.0 gal/hr Diesel	0	0	0	0 0	0	0	
		Motor Grader	Cat 14M	259 Hp III	1		0 50%	400 hr	11		11.0 gal/hr Diesel	0	0	0	0 0	0	0	<u></u>
		Water Trucks	Mack MP6	150 Hp II	1		0 50%	400 hr	3.5		3.5 gal/hr Diesel	0	0	0	0 0	0	0	
	· · · · · · · · · · · · · · · · · · ·	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp	1	4 M	0 50%	400 hr	3.5		3.5 gal/hr Gas	0	0	0	0 0	0	0	1.1
	Boring/Soils investigation	New York Control of the Control of Control o		CAPTURE NEW YORK							NAMES OF A DESCRIPTION OF							
T	Includes Wells & Dewatering	Schramm T64 Well Drilling Rig	Cat 3406 diesel	420 Hp II			0 35%	246 hr		0.026	10.9 gal/hr Diesel	0		0	0 0	0	0	
T		Pickup Truck 3/4 ton	F-250	300 Hp	1	4 Mo	0 50%	352 hr	3		3.0 gal/hr Diesel	0	0	0	0 0	0	0	
	Underground utilities, piping, duct runs, grounding							Concession (1998)									and the second second	
		Crane - Picker	Grove RT530E-2 30t	160 Hp III	2		0 40%	1126 hr		0.026	4.2 gal/hr Diesel	2,343	0 1,1		171 0	0	0	
		Tracked Dozer	Cat D7E	235 Hp III	2		0 60%	1690 hr	9		9.0 gal/hr Diesel	7,603	0 3,80		302 0	0	0	
		Backhoe	Cat 430E	102 Hp III	6		0 60%	5069 hr		0.028	2.9 gal/hr Diesel	7,238	0 2,8		171 2,171	0	0	111
		Pickup Truck 3/4 ton	F-250	300 Hp	8		0 40%	4506 hr	3		3.0 gal/hr Diesel	6,758	0 2,71		703 1,352	0	0	
		Excavator - Medium	Cat 321D	148 Hp III	2		0 60%	1690 hr	5		5.0 gal/hr Diesel	4,224	0 2,5		90 0	0	0	-
		Semi-Trailer Dump	Mack E8	400 Hp III	1	8 M	0 60%	845 hr		0.026	10.4 gal/hr Diesel	4,393	0 2,1	6 1,	757 439	0	0	
	Warehouse & Storage																1 0 0 0	-
	Construction & Operation	Fork Lift - 15,000 Lb capacity	Cat DP70E	94 Hp III		68 M		8378 hr		0.033	3.1 gal/hr Diesel	12,994	0 1,2		3,898	3,248	1,299	
		Crane - Picker	Grove RT530E-2 30t	160 Hp III	2	68 M		9574 hr		0.026	4.2 gal/hr Diesel	19,915	0 1,9		983 5,974	4,979	1,991	
		Pickup Truck 3/4 ton	F-250	300 Hp	2		0 50%	11968 hr	3		3.0 gal/hr Diesel	17,952	0 1,79		590 5,386	4,488	1,795	
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp	1	68 M		3590 hr	3.5		3.5 gal/hr Gas	6,283	0 63		1,885	1,571	628	
		Material truck 2-1/2 ton	F-650	270 Hp III	1	68 M		2992 hr		0.026	7.0 gal/hr Diesel	10,502	0 1,0		3,151	2,625	1,050	-
L		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III	1	68 M	0 45%	5386 hr		0.026	3.0 gal/hr Diesel	8,051	0 80		510 2,415	2,013		
	PART 1 PRE-CONSTRUCTION GAS PART 1 PRE-CONSTRUCTION DIESEL											6,283 120,163	0 62 1,123 33,92		257 1,885 567 24,787	1,571 17,353	628 6,941	
	A. Civil/Concrete structure Work	The second s							-									-
-	Bridge Construction (7 Bridges)	Tracked Dozer	Cat D10	700 Hp III	3	12 M	50%	3600 hr	20		20.0 gal/hr Diesel	0	0	0	0 0	0	0	-
+		Tracked Dozer	Cat D8	305 Hp III	2		b 50%	2400 hr			11.5 gal/hr Diesel	0	0	0	0 0	0	0	
+		Soil Compactor	Cat 08 Cat 825H	400 Hp III			0 45%	2400 hr 2160 hr	11.5		18.0 gal/hr Diesel	0	and the second se	0	0 0	0	0	
+		Soll Compactor Excavator - Medium	Cat 321D	148 Hp III	4	12 M		4800 hr	5		5.0 gal/hr Diesel	0	0	0	0 0	0	0	
+		Motor Grader	Cat 14M	259 Hp III	1		0 40%	960 hr	11		11.0 gal/hr Diesel	0	0	0	0 0	0	0	177
ł		Water Trucks	Mack MP6	150 Hp II	1		0 50%	1200 hr	3.5		3.5 gal/hr Diesel	0	ő	0	0 0	0	0	******
ł		Concrete Truck	Mack MP6	150 Hp III	5		0 45%	4752 hr	3.5		3.5 gal/hr Diesel	0	0	0	0 0	0	0	
ł		Tractor Loader/Backhoe	Case 580	80 Hp III	3	12 Mc		3802 hr	0.0	0.028	2.2 gal/hr Diesel	0	õ	0	0 0	0	0	1000
ł		Crane - Picker	Grove RT530E-2 30t	160 Hp III			50%	4224 hr		0.026	4.2 gal/hr Diesel	0	0	0	0 0	0	0	
+		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II	2		0 50%	2112 hr	6.3	0.020	6.3 gal/hr Diesel	0	0	0	0 0	0	0	
ł		Truck Mtd Boom 200 yds/hr Concrete Pump	Putzmeister 47Z-Meter	300 Hp III	1		0 25%	528 hr	0.0	0.028	8.4 gal/hr Diesel	0		0	0 0	0	o	<u>i i i</u>
t		Pickup Truck 3/4 ton	F-250	300 Hp	2		0 25%	1056 hr	3	0.020	3.0 gal/hr Diesel	0	0	0	0 0	0	0	
1		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp	1		0 25%	528 hr	3.5		3.5 gal/hr Gas	0	õ	0	0 0	0	0	
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III	2	12 M		1901 hr	0.0	0.026	3.0 gal/hr Diesel	0	0	0	0 0	0	0	
+		End Loader (Batch Plant)	Cat 966H	262 Hp III		12 M		1056 hr	5	0.020	5.0 gal/hr Diesel	0	0	0	0 0	0	0	-
																	-	-
	Sheet Piling	End Loader (Batch Flant)		LOL HP H						and the second second	The second s		Press and the second second		STREET, STREET			
	Sheet Pilling	Crane - Lattice Boom+Hammer	Manitowoc 111 - 80t	205 Hp III			0 50%	352 hr	5.3		5,3 gal/hr Diesel	0	0	0	0 0	0	0	

1%														
	Structural concrete	and a second												
		Truck Mtd Boom 200 yds/hr Concrete Pump	Putzmeister 47Z-Meter		2000 Hr 75%	7500 hr	0.028	8.4 gal/hr Diesel	31,500	0 3,150	9,450	9,450	6,300	1,575
		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II 5			6.3	6.3 gal/hr Diesel	24,948	0 2,495	7,484	7,484	4,990	1,247
		Crane - Picker	Grove RT530E-2 30t	160 Hp III 5		9504 hr	0.026	4.2 gal/hr Diesel	19,768	0 1,977	5,930	5,930	3,954	988
		Pickup Truck 3/4 ton	F-250	300 Hp 12		19008 hr	3	3.0 gal/hr Diesel	28,512	0 2,851	8,554	8,554	5,702	1,426
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 4			3.5	3.5 gal/hr Gas	11,088	0 1,109	3,326	3,326	2,218	554
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 6		17107 hr	0.026	3.0 gal/hr Diesel	25,575	0 2,558	7,673	7,673	5,115	1,279
		End Loader (Batch Plant)	Cat 966H	262 Hp III 2	36 Mo 50%	6336 hr	5	5.0 gal/hr Diesel	15,840	0 1,584	4,752	4,752	3,168	792
		Concrete Truck	Mack MP6	150 Hp III 10			3.5	3.5 gal/hr Diesel	36,590	0 3,659	10,977	10,977	7,318	1,830
		Tractor Loader/Backhoe	Case 580	80 Hp III 4	36 Mo. 50%	12672 hr	0.028	2.2 gal/hr Diesel	14,193	0 1,419	4,258	4,258	2,839	710
	Non Power Block - Pump House, Switchyard, Cooling Towers, Pump House													
0	Towers, Fump House	Crane - Picker	Grove RT530E-2 30t	160 Hp III 2	36 Mo 67%	8490 hr	0.026	4.2 gal/hr Diesel	0	0	0	0	0	ol
		Pickup Truck 3/4 ton	E-250	300 Hp 2		5069 hr	3	3.0 gal/hr Diesel	0	0 0	0	0	0	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1	36 Mo 40%		3.5	3.5 gal/hr Gas	0	0 0	0	0	0	0
		Material truck 2-1/2 ton (Licensed for off site use)		270 Hp III 1	36 Mo 25%	1584 hr	4	4.0 gal/hr Diesel	0	0 0	0	0	0	0
-		Truck Mounted Boom Concrete Pump	Putzmeister 47Z-Meter	300 Hp III 3		1901 hr	0.028	8.4 gal/hr Diesel	0	0 0	0	0	0	0
		Crane - Lattice Boom	Manitowoc 555 - 150t		36 Mo 50%		6.3	6.3 gal/hr Diesel	0	0 0	0	0	0	0
-		Rough Terrain Extended Forklift	Lull 1044C-54		24 Mo 45%	1901 hr	0.026	3.0 gal/hr Diesel	0	0 0	0	0	0	0
%	Switchyard					and the state of the	(Projector of the		And the second second	A REAL PROPERTY OF	Constant of the	and the second	and the state	
		Crane - Picker	Grove RT530E-2 30t	160 Hp III 2		3168 hr	0.026	4.2 gal/hr Diesel	3,295	0 0	1,647	1,318	329	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 2			3.5	3.5 gal/hr Gas	2,218	0 0	1,109	887	222	0
		Material truck 2-1/2 ton	F-650	270 Hp III 1	10 110 1010	792 hr	0.026	7.0 gal/hr Diesel	1,390	0 0	695	556	139	0
		Truck Mounted Boom Concrete Pump	Putzmeister 47Z-Meter	300 Hp III 3	18 Mo 10%	950 hr	0.028	8.4 gal/hr Diesel	1,996	0 0	1,497	499	0	0
		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II 1	18 Mo 25%		6.3	6.3 gal/hr Diesel	1,247	0	936	312	0	0
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 1	18 Mo 45%	1426 hr	0.026	3.0 gal/hr Diesel	1,066	0	799	266	0	0
1%	Cooling Tower													-
		Crane - Picker	Grove RT530E-2 30t	160 Hp III 4		8490 hr	0.026	4.2 gal/hr Diesel	3,532	0 0	0	1,060	2,472	0
		Pickup Truck 3/4 ton	F-250	300 Hp 3	10 110 10 10	3802 hr	3	3.0 gal/hr Diesel	1,140	0 0	0	342	798	0
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1	18 Mo 40%		3.5	3,5 gal/hr Gas	444	0 0	0	133	310	0
		Material truck 2-1/2 ton	F-650	270 Hp III 1	18 Mo 25%	792 hr	0.026	7.0 gal/hr Diesel	556	0 0	0	167	389	0
		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II 2	18 Mo 25%	1584 hr		6.3 gal/hr Diesel	998	0 0	0	299	699	0
		Truck Mounted Boom Concrete Pump	Putzmeister 47Z-Meter	300 Hp III 3		1901 hr	0.028	8.4 gal/hr Diesel	1,597	0 0	0	479	1,118	0
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 1	36 Mo 45%	2851 hr	0.026	3.0 gal/hr Diesel	853	0 0	0	256	597	0
	PART IIA GAS PART IIA DIESEL								13,749 214,596	0 1,109	4,435 64.652	4,346 0	0	0
	3. Superstructure & Structural Steel								214,000	0 100001	04,002	U	U	
	Structural and building steel													
		Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II 5	12 Mo 50%	5280 hr	6.3	6.3 gal/hr Diesel	13,306	0 0	2,661	9,979	665	0
		Crane - Lattice Boom	Manitowoc 999 - 275t	400 Hp III 4	12 Mo 50%	4224 hr	8.2	8.2 gal/hr Diesel	13,855	0 0	2,771	10,391	693	0
		Crane - Picker	Grove RT530E-2 30t	160 Hp III 7	12 Mo 67%	9905 hr	0.026	4.2 gal/hr Diesel	16,482	0 0	3,296	12,362	824	0
		Crane - Picker	Grove RT600E - 50t	173 Hp III 7	12 Mo 60%	8870 hr	0.026	4.5 gal/hr Diesel	15,960	0 0	3,192	11,970	798	0
	· · · · · · · · · · · · · · · · · · ·	Boom Lift	JLG 800AJ	65 Hp III 8	12 100 00 0	10138 hr	0.026	1.7 gal/hr Diesel	6,853	0 0	1,371	5,140	343	0
		Boom Lift - 80 ft	Genie S-80	74 Hp III 8	12 Mo 60%	10138 hr	0.026	1.9 gal/hr Diesel	7,802	0 0	1,560	5,851	390	0
		Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 8	12 Mo 60%	10138 hr	0.026	3.0 gal/hr Diesel	12,125	0 0	2,425	9,093	606	0
	Building Modules & Heavy Lifts								(General Sector)	and the state of the state of the				
		Crane - Manitowoc	21000 - 1000t		24 Mo 20%	845 hr 1		12.6 gal/hr Diesel	4,258	0 0	0	2,129	2,129	0
		Crane - Manitowoc	31000 - 2300t	1,200 Hp III 1	12 Mo 20%	422 hr	24	24.0 gal/hr Diesel	4,055	0 0	2,028	2,028	0	0
	Building Siding/Insulated Panels					10701	a ar =!		1 252			FOT	1.004	
		Crane - Picker	Grove RT530E-2 30t	160 Hp III 2		1056 hr	0.026	4.2 gal/hr Diesel	1,757	0 0	0	527	1,230	0
		Boom Lift - 80 ft	Genie S-80	74 Hp III 3	6 Mo 70%	2218 hr	0.026	1.9 gal/hr Diesel	1,707	0 0	0	512	1,195	0
		Pickup Truck 3/4 ton	F-250	300 Hp 2		845 hr	3	3.0 gal/hr Diesel	1,014	0 0	0	304	710	0
	en e	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1			3.5	3.5 gal/hr Gas	591	0 0	0	177	414	0
		Material truck 2-1/2 ton Rough Terrain Extended Forklift	F-650 Lull 1044C-54	270 Hp III 1 115 Hp III 2		528 hr 1056 hr	0.026	7.0 gal/hr Diesel	1,483	0 0	0	445 379	1,038	0
	Roofing	Rough Terrain Extended Forkint	Luil 10440-04	115 Hp III 2		1036 01	0.026	3.0 gal/hr Diesel	1,203	0 0	U	318	084	U
	rooming	Crane - Picker	Grove RT530E-2 30t	160 Hp III 2	6 Mo 45%	950 hr	0.026	4.2 gal/hr Diesel	1,581	0 0	0	0	1,581	0
		Boom Lift - 80 ft	Genie S-80	74 Hp III 3	6 Mo 45%	1426 hr	0.026	1.9 gal/hr Diesel	1,097	0 0	0	0	1,097	0
		Pickup Truck 3/4 ton	F-250	300 Hp 1	6 Mo 40%	422 hr	3 0.020	3.0 gal/hr Diesel	507	0 0		0	507	0
	where we are a subscription of the second	Pickup Truck 3/4 ton Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1			3.5	3.5 gal/hr Gas	591	0 0	0	0	591	0
			F-250 F-650	270 Hp III 1		528 hr	0.026	7.0 gal/hr Diesel	1.483	0 0		0	1.483	0
-		Material truck 2-1/2 ton Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 2		950 hr	0.026	3.0 gal/hr Diesel	1,137	0 0	0	0	1,137	0

Bell B	rr Nuclear end Nuclear Power Plant ruction Vehicle Fuel Consumption Study			Attachment 1 Worksheet 2 of 2 - Page 4 of 6 Safety-related Fuel Usage							L-010055, Rev. 2 ct No. 12198-434
1	IIA. Mechanical Installation										and characterist
50%	Mechanical Installation	and a second second and a second s									
	Including:	Crane - Picker	Grove RT530E-2 30t	160 Hp III 5 42 Mo 40%	14784 hr 0.026	4.2 gal/hr Diesel	30,751	0 0	6,150 15,375		3,075
	Piping, Hangers & Pipe Specialties	Crane - Picker	Grove RT600E - 50t	173 Hp III 3 12 Mo 40%	2534 hr 0.026	4.5 gal/hr Diesel	5,700	0 0	1,140 2,850	1,140	570
	Valves and Actuators	Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II 5 12 Mo 40%	4224 hr 6.3	6.3 gal/hr Diesel	13,306	0 0	2,661 6,653		1,331
	HVAC Ductwork, Dampers, Actuators, Fans	Crane - Lattice Boom	Manitowoc 999 - 275t Manitowoc16000 - 440t	400 Hp III 2 12 Mo 40% 500 Hp III 1 12 Mo 40%	1690 hr 8.2	8.2 gal/hr Diesel	6,927	0 0	1,385 3,464 879 2,196	1,385	693 439
	Pump, chillers, coolers, Hx, Equipment	Crane - Lattice Boom Boom Lift	JLG 800AJ	500 Hp III 1 12 Mo 40% 65 Hp III 5 12 Mo 50%	845 hr 10.4 5280 hr 0.026	10.4 gal/hr Diesel 1,7 gal/hr Diesel	4,393	0 0	892 2,231	892	439
	Air compressors Examination, Testing & Start-up	Boom Lift - 80 ft	Genie S-80	74 Hp III 5 12 Mo 50%	5280 hr 0.026	1.9 gal/hr Diesel	5.079	0 0	1,016 2,540	1.016	508
	Examination, resting & stan-up	Pickup Truck 3/4 ton	F-250	300 Hp 4 24 Mo 30%	5069 hr 3	3.0 gal/hr Diesel	7.603	0 0	1.521 3.802	1,521	760
	and the second	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1 42 Mo 30%	2218 hr 3.5	3.5 gal/hr Gas	3,881	0 0	776 1,940	776	388
		Material truck 2-1/2 ton	F-650		4435 hr 0.026	7.0 gal/hr Diesel	15,568	0 0	3,114 7,784		1,557
		Rough Terrain Extended Forklift	Lull 1044C-54	270 Hp III 2 42 Mo 30% 115 Hp III 2 42 Mo 40%	5914 hr 0.026	3.0 gal/hr Diesel	8,841	0 0	2,652 3,536	1,326 1	1,326
	PART IIIA GAS PART IIIA DIESEL						3,881 93,788	0 0	776 1,940 18,758 46,894	776 18,758 9	388 9,379
	IIB, Electrical Installation		and the second secon		CONTRACTOR OF THE REAL PROPERTY OF THE REAL PROPERTY OF	and the second	Concernance of the local distance of the loc	Sectors and the sectors and	and the second second second second	and the second second second	and the ball shares in
50%	Electrical Installation						The strategic strategics			A STATE OF THE PARTY OF	
	Including:	Crane - Picker	Grove RT530E-2 30t	160 Hp III 5 42 Mo 60%	4435.2 0.026	4.2 gal/hr Diesel	9,225	0 0	1,384 3,690		1,384 92
	Conduit, Cable Tray Raceway & Supports	Crane - Picker	Grove RT600E - 50t	173 Hp III 3 12 Mo 50%	3168 hr 0.026	4.5 gal/hr Diesel	7,125	0 0	1,069 2,850		1,069 71
	Instrumentation (Racks, mounting, transmitters)	Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp II 5 12 Mo 50%	5280 hr 6.3	6.3 gal/hr Diesel	16,632	0 0	2,495 6,653		2,495 1,66
	Power & Control Cable & Terminations	Crane - Lattice Boom	Manitowoc 999 - 275t	400 Hp III 2 12 Mo 50%	2112 hr 8.2	8.2 gal/hr Diesel	8,659	0 0	1,299 3,464		1,299 86
	Isophase and nonsegregated bus duct	Crane - Lattice Boom	Manitowoc16000 - 440t	500 Hp III 1 12 Mo 50%	1056 hr 10.4	10.4 gal/hr Diesel	5,491	0 0	824 2,196 669 1.785	1,098	824 54 669 44
	Control room panels, wiring and termination Local Instrument and control equipment	Boom Lift Boom Lift - 80 ft	JLG 800AJ Genie S-80	65 Hp III 5 12 Mo 50% 74 Hp III 5 12 Mo 50%	5280 hr 0.026 5280 hr 0.026	1.7 gal/hr Diesel 1.9 gal/hr Diesel	4,462	0 0	669 1,785 762 2.032	1.016	669 44 762 50
	Switchyard Breakers & Equipment	Crane - Lattice Boom	Manitowoc 555 - 150t	355 Hp III 1 12 Mo 40%	845 hr 6.3	6.3 gal/hr Diesel	2.661	0 0	399 1.064	532	399 26
	Equipment and site grounding	Pickup Truck 3/4 ton	F-250	300 Hp 3 24 Mo 40%	5069 br 3	3.0 gal/hr Diesel	7.603	0 0	1.140 3.041		1,140 76
	Communications and data systems	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1 42 Mo 30%	2218 hr 3.5	3.5 gal/hr Gas	3,881	0 0	582 1.552	776	582 38
	Examination, Testing & Start-up	Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 2 42 Mo. 40%	5914 hr 0.026	3.0 gal/hr Diesel	8,841	0 0	1,326 3,536		1,326 88
	PART IIIB GAS		COLUMN STATES			Contraction of the local distance of the loc	3,881	0 0	582 1,552	776	582 38
	PART IIIB DIESEL		en la la caracteria de la				75,779	0 0	11,367 30,311	15,156 11	11,367 7,57
75%	V. Major equipment (heavy) lift and movement						Constraint and the second second		and the start started articles	and the second state of the	and the second second
	Including:										
	Transformers and switchgear	Crane - Lattice Boom	Manitowoc16000 - 440t	500 Hp III 1 12 Mo 25%	528 hr 10.4	10.4 gal/hr Diesel	4,118	0 0	412 1,236	2,059	206 20
	Large Motor installations	Crane - Lattice Boom	Manitowoc21000 - 1000t			12.6 gal/hr Diesel	4,990	0 0	499 1,497	2,495	249 24
	Reactor vessel, S/G, Containment Liner assemblies	Heavy Transporter	Goldhoffer	600 Hp III 2 300 Hr 75% 600 Hp III 1 300 Hr 75%	300 hr 0.025 300 hr 0.025	15.0 gal/hr Diesel	3,375	0 0	0 1,350	2,025	0
	Turbine and generator parts and pieces Moisture separators. FW Heaters.	Heavy Transporter Heavy Transporter	Goldhoffer	600 Hp III 1 300 Hr 75%	300 hr 0.025	15.0 gal/hr Diesel 15.0 gal/hr Diesel	3,375	0 0	0 1,350	2.025	0
	PART IV GAS	Heavy Hanspoller	Goldholler		300 11 0.020	15.0 gaviii Diesei	3,373	0 0	0 0	2,020	0
	PARTIV GAS		and the second secon				19.233	0 0	911 6.782	and the second s	455 45
0%	/. Construction & Site Support				Care and the second		10.200		OTH OTOL	NO. COLO INC.	
	Including:	Crane - Picker	Grove RT530E-2 30t	160 Hp III 2 68 Mo 50%	11968 hr 0.026	4.2 gal/hr Diesel	0	0 0	0 0	0	0
	Service vehicles	Boom Lift - 80 ft	Genie S-80	74 Hp III 3 68 Mo 25%	8976 hr 0.026	1.9 gal/hr Diesel	0	0 0	0 0	0	0
	Janitorial / Garbage collection	Pickup Truck 3/4 ton	F-250	300 Hp 3 68 Mo 25%	8976 hr 3	3.0 gal/hr Diesel	0	0 0	0 0	0	0
	Snow plowing and road maintenance	Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1 68 Mo 10%	1197 hr 3.5	3.5 gal/hr Gas	0	0 0	0 0	0	0
	Portable lighting	Material truck 2-1/2 ton	F-650	270 Hp III 1 68 Mo 25%	2992 hr 0.026	7.0 gal/hr Diesel	0	0 0	0 0	0	0
	Portable generators	RR switch engine	Estimated 600 Hp	600 Hp II 1 68 Mo 10%	1197 hr 0.026	15.6 gal/hr Diesel	0	0 0	0 0	0	0
	Welders	Welders		<50 Hp			0				
	Air compressors	Air Compressors		<50 Hp <50 Hp			0				
	Portable lighting	Portable Lighting		COU HD			0				
	PART V GAS						0	0 0	0 0	0	0
	PART V DIESEL							0 0	0 0	0	0
10%	/I. Final site work/Grading										and the second second
	Topsoil Restoration - 124,200 cy	Tracked Dozer	Cat D9	410 Hp III 3 8 Mo 60%	2534 hr 15	15.0 gal/hr Diesel	3,802	0 0	0 0	0	760 3,04
		Tracked Dozer	Cat D7	235 Hp III 3 8 Mo 60%	2534 hr 9	9.0 gal/hr Diesel	2,281	0 0	0 0	0	456 1,82
		Excavator - Medium	Cat 321D	148 Hp III 1 8 Mo 50%	704 hr 5	5.0 gal/hr Diesel	352	0 0	0 0	0	70 28 879 3,51
		Semi-Trailer Dump Motor Grader	Mack E8 Cat 14M	400 Hp III 6 8 Mo 50% 259 Hp III 2 8 Mo 60%		10.4 gal/hr Diesel 11.0 gal/hr Diesel	4,393	0 0	0 0	0	879 3,51 372 1,48
	And the second s	Vibratory Soil Compactor	Cat CS74	259 Hp III 2 8 M0 60%	2534 hr 6	6.0 gal/hr Diesel	1,859	0 0	0 0	0	304 1,21
		Pickup Truck 3/4 ton	F-250	300 Hp 2 8 Mo 30%	845 hr 3	3.0 gal/hr Diesel	253	0 0	0 0	0	51 20
		Pickup Truck 3/4 ton (Licensed for offsite use)	F-250	300 Hp 1 8 Mo 50%	704 hr 3.5	3.5 gal/hr Gas	246	0 0	0 0	0	49 19
		Fuel Truck	Mack MP6	150 Hp II 1 8 Mo 10%	141 hr 3.5	3,5 gal/hr Diesel	49	0 0	0 0	0	10 3
	the second se	Rough Terrain Extended Forklift	Lull 1044C-54	115 Hp III 2 8 Mo 30%	845 hr 0.026	3.0 gal/hr Diesel	253	0 0	0 0	0	51 20
		Material truck 2-1/2 ton	F-650	270 Hp III 1 8 Mo 30%	422 hr 0.026	7.0 gal/hr Diesel	297	0 0	0 0	0	59 23 49 19

	end Nuclear Power Plant ruction Vehicle Fuel Consumption Study	27 - 174 - ⁶ 18		Safety-related Fuel Us		Fielert									
	Section 2 Commercial/Construction Deliveries	Deliveries	Quantity	Units	Distance	Fuel rate mi/gal	Fuel To	otal Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year
)%	Construction deliveries and related traffic	15 Tons per Shipment													
	Civil Material Construction Equipment Mobilization/Removal	500 moves on + 500 off	1,000	shipments	50 mi	6.5 mi/gal	Diesel	7,692 gal	1,538	2,308	1,154	385	385	769	1,
	Concrete Material (Sand, stone, cement, admixtures)	848,362 tons	56,557	shipments	50 mi	6,5 mi/gal		435,057 gal	21,753	87,011	130,517	108,764	43,506	21,753	21,
	Lean Concrete Materials	200,000 cy	13,333	shipments	50 mi	6.5 mi/gal	Diesel	102,564 gal	0	51,282	51,282	0	0	0	
	Engineered fill	500,000 cy	33,333	shipments	50 mi	6.5 mi/gal	Diesel	128,205 gal	0	64,103	64,103 123.077	0	0	0	
	Cohesive fill	800,000 cy	53,333 160	shipments	50 mi 50 mi	6.5 mi/gal 6.5 mi/gal		246,154 gal 614 gal	0	123,077	215	153	31		
	Formwork Rebar	2,393 tons 55,331 tons	3.689	shipments	50 mi	6.5 mi/gal		14,187 gal	709	2.837	4.966	3.547	709		
	Structural Steel	6,261 tons	417	shipments	75 mi	6.5 mi/gal		2,408 gal	0	241	963	963	120	120	
	Misc. Steel	1,016 tons	68	shipments	75 mi	6.5 mi/gal	Diesel	782 gal	0	0	234	234	78		
	Mod Steel	225 tons	15	shipments	75 mi	6.5 mi/gal	Diesel	87 gal	0	0	22		26		
%	Steel Liner	1,412 tons	94	shipments	75 mi	6.5 mi/gal		326 gal	0	0	130		65		
%	Embedded Steel	1,903 tons	127	shipments	75 mi	6.5 mi/gal		0 gal	0	0	0	0	0		
%	Siding & Roofing	2,056 tons	137	shipments	50 mi 50 mi	6.5 mi/gal 6.5 mi/gal		0 gal 0 gal	0	0	0	0	0		
%	Asphalt	21,850 tons	1,457	shipments shipments	50 mi	6.5 mi/gal		0 gai 0 gai	0	0	0	0	0	0	in ner löter i
%	Pre engineered building	60 tons 12,000 tons	4 800	shipments	50 mi	6.5 mi/gal		3,077 gal	308	308	462		462		
	Construction Debris Piping and Mechanical Material	7,500 tons	500	or mprindliko		o.o miygai		elet i Aqu	000	000					
	Large and Small bore pipe	7,500 tons	500	shipments	75 mi	6.5 mi/gal	Diesel	5,769 gal	0	0	1,154	2,019	1,731	577	
	Large bore hangers	2,788 tons	186	shipments	75 mi	6.5 mi/gal		322 gal	0	0	64	113	97	32	
	Nuclear Island EM package equipment	15,377 tons	1,025	shipments	150 mi	6,5 mi/gal		11,828 gal	0	0	2,366	4,140	3,549		
	Turbine Island and BOP Mechanical Equipment	Estimated	1000	shipments	150 mi	6.5 mi/gal		0 gal	0	0	0	1,094	938	0 313	
)%	Consumables	Estimated	1000	shipments	50 mi	8.0 mi/gal	Gas	3,125 gal	0	0	625	1,094	938	313	
	Electrical Equipment	1.356 tons	90	shipments	50 mi	6,5 mi/gal	Diecol	346 gal	0	0	52	121	104	35	
1%	Conduit	1,356 tons	49	shipments	50 mi	6.5 mi/gal		377 gal	0	0	57	132	113		<u></u>
	Cable Tray Power & Control wire	4.406 tons	294	shipments	75 mi	6.5 mi/gal		339 gal	0	0	51	102	119		
170	NI Electrical Equipment	5,000 tons	333	shipments	150 mi	8.0 mi/gal	Gas	0 gal	0	0	0	0	0	0	
5%	TI Electrical Equipment	5,000 tons	333	shipments	150 mi	8.0 mi/gal	Gas	1,563 gal	0	0	234	469	547	156	
0%	Site Support Services					kanalina ing mang sa ara									
	Fuel deliveries	Based on fuel usage from Section 1	114	shipments	50 mi	6.5 mi/gal		0 gal	0	0	0	0	0	0	
	Vendor deliveries	4 /day	5984 4488	trips	50 mi	15.0 mi/gal 18.0 mi/gal		0 gal 0 gal	0	0	0	0	0		
	Equipment service calls	3 /day	4488	trips	50 Mi	to.u milgar	Gas	4,688	0	0	859	1,563	1,484		Contra Contra
	COMMERCIAL/DELIVERIES GAS COMMERCIAL/DELIVERIES DIESEL							960,134					51,093		25,
		Average Workforce KLD Traffic Study	Commuters = 1.3		Average	Average Fuel									
%	Section 3 Workforce Commute	Const Staffing Profile RFI EPR-11-039	person/car		Round trip Distance	rate (mi/gal)	Fuel To	otal Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year
%	Year 1	150	115		50 mi	20.0 mi/gal		4,140	4,140						
%			100		50 mi	18.0 mi/gal	Diesel	400 60,720	400	60,720					
%	Year 2	550	423		50 mi 50 mi	20.0 mi/gal 18.0 mi/gal	Diesel	5,867		5,867					
	Year 3	1950	1,500		50 mi	20.0 mi/gal		484,380		0,007	484.380				
0%	tear 5	1800	1,000		50 mi	18.0 mi/gal		46,800			46,800	1			
1%		3800	2,923		50 mi	20.0 mi/gal		943,920				943,920			
)%	Year 4	NAME OF MARK PROPERTY OF THE OWNER			50 mi	18.0 mi/gal		91,200				91,200			
0%	Year 4					20.0 mi/gal	Gas	943,920					943.920		
)%	Year 4 Year 5	3800	2,923		50 mi	20.0 migar									i en i intigen
1%	Year 5				50 mi	18.0 mi/gal	Diesel	91,200					91,200		in i jitinaa
%		3800	2,923		50 mi 50 mi	18.0 mi/gal 20.0 mi/gal	Diesel Gas	496,800						496,800	
%	Year 5 Year 6	2000	1,538		50 mi 50 mi 50 mi	18.0 mi/gal 20.0 mi/gal 18.0 mi/gal	Diesel Gas Diesel	496,800 48,000							99
%	Year 5				50 mi 50 mi	18.0 mi/gal 20.0 mi/gal	Diesel Gas Diesel Gas	496,800						496,800	99,

ar Nuclear iend Nuclear Power Plant iruction Vehicle Fuel Consumption Study		Attachment 1 Worksheet 2 of 2 - Page 6 of 6 Safety-related Fuel Usage								lo: SL-01005 Project No. 12	
Fuel Consumption Summary											No
Non-Road Equipment Summary			Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5 126,458	Year 6	Year7 33.3
Luzern County	100%	the second s	Diesel	655,180	1,123	53,613	150,211	248,052		42,327	
			Gas	29,223	0	1,737	7,050	9,902	6,878	2,202	
Construction Deliveries Summary			Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year7
Wyoming, Lackawanna, Luzern, and Monroe	45%	a and a second	Diesel	432,060	10,953	149,080	171,390	54,648	22,992	11,641	11,3
	AND A CONTRACTOR OF		Gas	2,109	0	0	387	703	668	211	1
ehigh, Carbon, Northampton, and Lancaster	10%		Diesel	96,013	2,434	33,129	38,087	12,144	5,109	2,587	2,5
		The second se	Gas	469	0	0		156	148	47	
Columbia, Schuykill	45%		Diesel	432,060	10,953	149,080	171,390	54,648 703	22,992	11,641	11,3
			Gas	2,109	24.339	331,289		121,441	51.093	25,868	
Total			Diesel	960,134	24,339	331,289	380,867	121,441	1,484	20,868	25,2
			Gas		0	0		1,563	1,484	Year 6	Year7
Workforce Commute	1011		Fuel	Total Fuel 46.891	Year 1 64	Year 2 939	Year 3 7.488	14.592	14,592	7,680	1.5
Carbon	16%		Diesel	46,891	662	939	77.501	151.027	151.027	79,488	15.8
			Gas	485,318	60	9,715	7,501	13,680	13,680	79,488	15,6
Columbia	15%		Diesel	43,960		9,108	72.657	141,588	141,588	74,520	1,4
				23,445	621 32	9,108	3,744	7,296	7,296		14,5
Lackawanna	8%		Diesel	23,445	32	4.858	38,750	75.514		3,840 39,744	
				128,949	176	2,581	20,592	40.128	40,128	21,120	7,
Luzerne	44%		Diesel	1,334,626	1,822	2,581	213,127	415,325			
			Diesel	11.723	1,022	235	1.872	3,648	3,648	1,920	43,
Montour	4%		Gas	121,330	166	2.429	19.375	37,757	37.757	19.872	
	3%		Diesel	8.792	12	176	1,404	2,736	2,736	1,440	3,
Northumberland	3%		Gas	90,997	124	1.822	14.531	28,318		14,904	
A 1 1 1	10%		Diesel	29.307	40	587	4,680	9,120	9,120	4,800	2,
Schuykill	10%		Gas	303,324	414	6.072	48,438	94,392	94,392	49.680	
	1%		Diesel	2.931	414	59	468	912	912	43,000	5,
Wyoming	1%		Gas	30.332	41	607	4.844	9,439	9,439	4.968	
Tabl	and the second		Diesel	293.067	41	5.867	46.800	91,200	91,200	48.000	
Total			Gas	3 033 240	400	60,720	484,380	943,920	943,920	496,800	99.3
Deciset Firel Lisses Summony			Fuel	Total Fuel	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year
Project Fuel Usage Summary			Diesel	1.908.381	25.862	390,769	577.878	460.693	268.751		68.2
			Gas	3,067,151	4.140	62,457	492.289	955,384	952,283	499,471	101,1

UniStar Nuclear Bell Bend Nuclear Power Plant Construction Vehicle Fuel Consumption Study Report No: SL-010055, Rev. 2 Project No. 12198-434 Page 21 of 23

Attachment 2

From RFI E	EPR 11-039 re	equest
Origin of w	orkforce table	
Direction	Population	Census Distribution (%)
Ň	38,458	3.77%
NW	19,451	1.91%
W	117,235	11.50%
SW	87,884	8.62%
S	121,621	11.92%
SE	158,518	15.54%
E	96,586	9.47%
NE	380,169	37.27%
Total	1,019,922	100.00%

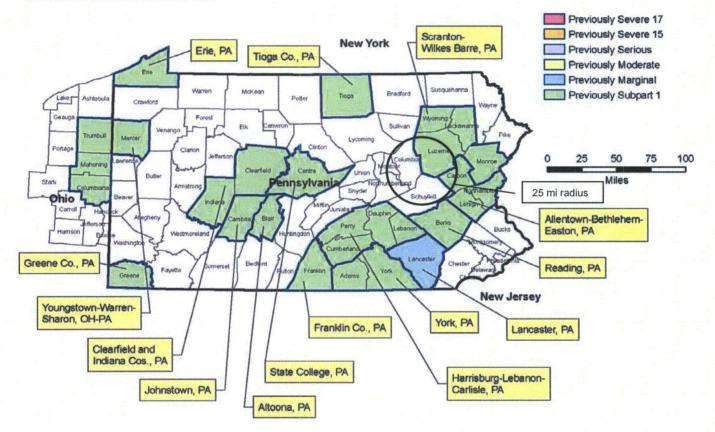
R2

UniStar Nuclear Bell Bend Nuclear Power Plant Construction Vehicle Fuel Consumption Study Report No: SL-010055, Rev. 2 Project No. 12198-434 Page 22 of 23

Attachment 3 – Pennsylvania map of 8 hour ozone maintenance areas

Pennsylvania

8-hour Ozone Maintenance Areas in Blue Border



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Attachment 4 – E-mail requesting information for BBNPP Air Quality applicability analysis

From: Iwanchuk, Robert [mailto:Robert.Iwanchuk@aecom.com] Sent: Friday, August 07, 2009 5:28 PM To: Perdomo, Federico R Cc: Sullivan, David; Miller, Ian Subject: RE: UniStar Bell Bend

Fred -

Here are the data needs for the Bell Bend applicability analysis specific to NOx and VOC emissions:

- · Identification of and quantity of each non-road (non-highway vehicle) engine associated with
- construction work (including site preparation) including the following information. This is the information contained in CCNPP file 25237-000-G65-HPYA-00001)

- fuel type (diesel or gasoline)
 - engine motor size (Hp) (CCNPP did not consider small equipment less than 50 Hp)
 - combined engine hours of use and fuel consumption (broken down by projected

construction year) - If known or estimated, model year or EPA engine emissions tier, (i.e. Tier 1, Tier 2)

Examples:

2 Caterpillar D6 bulldozers; diesel; 185 Hp (each); Tier 3-Model year 2009; combined 5200 hrs/51,110 gallons in 2011, 2600 hrs/25,555 gallons in 2012

10 Kenworth t-800 dump trucks; diesel; 250 Hp (each); Tier 2-Model year 2003; combined 6500 hrs/38,995 gallons in 2011, 13000 hrs/77,911 gallons in 2012

· Identification (numbers and sizes) of on-site gasoline & diesel storage tanks

Identification of expected highway vehicles for on-site use (expected to be mostly pickup trucks).
 Please also provide a gross estimate of either annual miles traveled or fuel consumption.

· Plot plan showing layout of major construction areas, parking areas, and roadways (including internal to the site).

These next three have certain data elements which may only be best guesses. They are requested since Bell Bend in located at the edge of the Scranton-Wilkes Barre ozone maintenance area. We may be able to exclude emissions generated outside of that area.

· Estimate of commercial deliveries (deliveries/day), delivery distance (from origin to site), and approximate origin by county.

· Estimate of commuter vehicles (vehicles/day), commuting distance (from home to site), and approximate origin by county.

· Estimate of concrete deliveries, delivery distance (from origin to site), and approximate origin by county. (if no batch plant on-site)

Let me know if you need more information or have any questions.

Bob

Appendix B

Emissions Calculations

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Eguipment	See 1	Langino Technology	No.of Equipment	Equipment Clorsepower	(Rud)	Total Hours	Year	1	Yearz	3	Years	3. 	Vear4		Year	3	Yeer	3	Verr	7
изек иуре∘		Type	0	ம்ற	Турэ		Operation!%	Hours	Operation%	Hours)	Operation!%	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours)
IA:Early/SiteIPrepatratio	2270002069	T3	4	700 Hp	Diesel	3,300	100%	3,300	0%		0%		0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	T3	3	263 Hp	Diesel	2,475	100%	2,475	0%	0	0%	ŏ	0%	0	0%	l õ	0%	ŏ	0%	ŏ
Excavator	2270002036	T3	3	148 Hp	Diesel	1,980	100%	1,980	0%	0	0%	ō	0%	ŏ	0%	Ō	0%	ō	0%	0
Excavator	2270002036	T3	1	380 Hp	Diesel	660	100%	660	0%	0	0%	0	0%	Ó	0%	Ó	0%	0	0%	0
Crane	2270002045	Т3	2	160 Hp	Diesel	880	100%	880	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Dumper/Tener	2270002078	T3	10	450 Hp	Diesel	5,500	100%	5,500	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	Т3	2	259 Hp	Diesel	990	100%	990	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper	2270002018	T3	8	462 Hp	Diesel	5,280	100%	5,280	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper	2270002018	T3	3	462 Hp	Diesel	1,980	100%	1,980	0%	· 0	0%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	Т3	1	156 Hp	Diesel	660	100%	660	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
IA. Site Development an							ale Cort							A A A						
Intake area, Switchy			7	700 Ha	Discol		200/		70%	2.940	0%	0		* <i>47</i> 0	0%	0	0%	0	0%	0
Crawler Tractors Scraper (dual engine 1/2)	2270002069	T3 T3	6	700 Hp 500 Hp	Diesel Diesel	4,200	30%	1,260 720	70%	1,680	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 1/2) Scraper (dual engine 2/2)			6	462 Hp	Diesel	2,400	30%	720	70%	1.680	0%	ŏ	0%	0	0%		0%	- 0	0%	6
Excavator	2270002018	T3	1	148 Hp	Diesel	480	30%	144	70%	336	0%	- 0 -	0%	0	0%	ا ق	0%	ŏ	0%	ŏ
Tractor/Loader/Backhoe	2270002056	T3	6	263 Hp	Diesel	3,360	30%	1.008	70%	2,352	0%	- 0-	0%	0	0%	1-6-	0%	ŏ	0%	l ŏ
Grader	2270002048	T3	1	259 Hp	Diesel	400	30%	120	70%	280	0%	0	0%	ō	0%	ŏ	0%	0	0%	- ŭ
Powerblock (inc. cod	-			THE REPORT OF	SX (4. 14					-	BERRY CARE	Sec. 1		Sign Collins	2002.000 A.M. 9	Letter at				
Crawler Tractors	2270002069	T3	4	700 Hp	Diesel	6,240	50%	3,120	50%	3,120	0%	0	0%	0	0%	0	0%	0	0%	0
Crawler Tractors	2270002069	T3	1	410 Hp	Diesel	1,560	40%	624	40%	624	20%	312	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	T3	2	263 Hp	Diesel	3,120	40%	1,248	40%	1,248	20%	624	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 1/2)	2270002018	T3	15	500 Hp	Diesel	19,500	50%	9,750	50%	9,750	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 2/2)	2270002018		15	462 Hp	Diesel	19,500	50%	9,750	50%	9,750	0%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	T3	2	156 Hp	Diesel	2,340	20%	468	40%	936	40%	936	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	Т3	2	400 Hp	Diesel	2,340	20%	468	40%	936	40%	936	0%	0	0%	0	0%	0	0%	0
Excavator	2270002036	T3	2	148 Hp	Diesel	3,120	40%	1,248	40%	1,248	20%	624	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe_	2270002066	<u>T3</u>	6	263 Hp	Diesel	10,920	40%	4,368	40%	4,368	20%	2,184	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	<u>T3</u>	2	259 Hp	Diesel	2,600	30%	780	40%	1,040	30%	780	0%	0	0%	0	0%	0	0%	00
Excavator	2270002036	T3 T3	5 30	428 Hp	Diesel	7,800	<u>50%</u> 40%	3,900	50%	3,900	20%	0	0%	0	0%	0	0%		0%	0
Off-Highway Truck	2270002051	T2	30	650 Hp 462 Hp	Diesel Diesel	35,100	30%	14,040 390	40%	520	30%	7,020	0%	0	0%	0	0%		0%	
Off-Highway Truck Rubber tire loader	2270002051	T3	2	262 Hp	Diesel	704	0%	0	75%	520	25%	176	0%	0	0%	0 0	0%		0%	
Parking a second	2270002000			202110	Diesei		078		1378	J2,0							078		078	
Crawler Tractors	2270002069	тз	2	235 Hp	Diesel	1,500	0%	0	60%	900	40%	600	0%	0	0%	0	0%	0	0%	0
Scraper	2270002018	T3	1	462 Hp	Diesel	500	0%	ŏ	60%	300	40%	200	0%	ō	0%	- ŏ	0%	0	0%	ŏ
Surfacing	2270002024	T3	2	156 Hp	Diesel	900	0%	0	60%	540	40%	360	0%	0	0%	1-0	0%	ŏ	0%	1 õ
Surfacing	2270002024	T3	2	400 Hp	Diesel	900	0%	0	60%	540	40%	360	0%	0	0%	ō	0%	0	0%	Ō
Excavator	2270002036	T3	1	148 Hp	Diesel	600	0%	ŏ	60%	360	40%	240	0%	0	0%	ō	0%	Ō	0%	ō
Tractor/Loader/Backhoe	2270002066	T3	1	263 Hp	Diesel	700	0%	0	60%	420	40%	280	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	Т3	1	259 Hp	Diesel	500	0%	0	60%	300	40%	200	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	T3	1	174 Hp	Diesel	500	0%	0	60%	300	40%	_ 200	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	T3	1	107 Hp	Diesel	500	0%	0	60%	300	40%	200	0%	0	0%	0	0%	0	0%	0
Support Road (incho				CONTRACTOR STAT									A02748.224			2012.06520				
Crawler Tractors	2270002069	T3	4	235 Hp	Diesel	9,000	30%	2,700	50%	4,500	20%	1,800	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 1/2)		<u>T3</u>	3	500 Hp	Diesel	4,500	50%	2,250	45%	2,025	5%	225	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 2/2)		T3	3	462 Hp	Diesel	4,500	50%	2,250	45%	2,025	5%	225	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024 2270002024	T3	2	156 Hp 400 Hp	Diesel	1,350	30% 30%	405	50%	675	20%	270 540	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	<u>T3</u> 	2	400 Hp 148 Hp	Diesel Diesel	3,600	30%	810	50% 50%	1,350	20%		0%	0	0%	0	0%	0	0%	0
Excavator Tractor/Loader/Backhoe	2270002036	T3	2	263 Hp	Diesel	4,200	30%	1,080 1,260	50%	1,800	20%	840	0%	0	0%	0	0%	0	0%	0
Grader	2270002088	T3	2	259 Hp	Diesel	1.600	30%	480	50%	800	20%	320	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002048	T3	1	174 Hp	Diesel	500		460	60%	300	40%	200	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	T3	1	174 Hp 107 Hp	Diesel	500	0%	6	60%	300	40%	200	0%	0	0%	0	0%	0	0%	ŏ
Off-Highway Truck	2270002021	T2	1	462 Hp	Diesel	1.200	30%	360	50%	600	20%	200	0%	0	0%	1 õ	0%	0	0%	
On-righway riduk	12210002001	4	1	402 HP	Diesel	1,200	3070		0070	000	2070	240	0.0		070	0	070	v	070	

BBNPP General Conformity Applicability Analysis Appendix B Nonroad Engine Emissions Bell Bend Non-road NOx-VOC

Total Construction NOx and VOC Emissions from Non-road Engines Table B-1a

	Criteria	Pollutants		Median			in the second	Deteri	oration	Adjus	ted EF						En	hissions	(tons) ⁶						
Equipment	ାମ୍ଚରେ (ന്നാണി ^മ	Load	Life 3	Age-	ΩÅ.	μQ	fac	tor ⁴	(g/hr	ehn) ⁶				BHC		संदर्भ हिन्द्रियन्त्र संदर्भ हिन्द्रियन्त्र					NOX	New Sec.		
type	HC HC	NOX	Factor ²	Hours	Factor	潮HC 测	NOX	HC	NOX	HC	NOX	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
IAnEarly/Site Prepatratio			IF ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	M M	<i>你,学道神</i> 望			il de la company	MARK Local	AND REAL PROPERTY.		教育部業			gen and ge						WEARAN				
Crawler Tractors	0.17	2.61	0.59	7000	>1	0.027	_0.008	1.027	1.008	0.175	2.631	0.26	0.00	0.00	0.00	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	>1_	0.027	0.008	1.027	1.008	0.431	3.054	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0,04	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.18	2.5 3.03	0.43	4667	>1	0.027	0.008	1.027	1.008	0.390	3.054	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00
Dumper/Tener Grader	0.38	2.61	0.21	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00
Scraper	0.13	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.135	2,631	0.28	0.00	0.00	0.00	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.00	0.00	0.00
Scraper	0.17	2,61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0,10	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0,00	0.00	0.00	0.00	0.00	0.00
Surfacing	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
IA Site Development and			Distances of the local		service made					Carles &				SECTION OF								1997 - F			
Intake/area, Switchya	and the second			Gerter 7	STREET, ST																				
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.10	0.23	0.00	0.00	0.00	0.00	0.00	1.51	3.52	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2)	0.17	2.61	0.59	7000	>1	0.027	0,008	1.027	1.008	0.175	2.631	0.04	0.10	0.00	0.00	0.00	0.00	0.00	0.62	1,44	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 2/2)	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.04	0.09	0.00	0.00	0.00	0.00	0.00	0.57	1.33	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.00_	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.03	0.06	0.00	0.00	0.00	0,00	0.00	0.19	0.44	0.00	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.12	0.00	0.00	0.00	0.00	0.00
Rowerblock (inc. coo		2.64	0.50	7000	· · · · · · · · · · · · · · · · · · ·	0.027	0.008	1.027	1.008	0.175	2.631	0.25	0,25	0,00	0.00	0.00	0.00	0.00	3.74	3.74	0.00	0.00	0.00	0.00	0.00
Crawler Tractors	0,17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.00	0.00	0.00	0.00	0.00
Crawler Tractors Tractor/Loader/Backhoe	0.17	3.03	0.59	4667	>1	0.027	0.008	1.027	1.008	0.431	3.054	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.23	0.23	0.12	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2)	0.42	2.61	0.21	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.03	0.55	0.02	0.00	0.00	0.00	0.00	8.34	8.34	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2) Scraper (dual engine 2/2)	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.50	0.51	0.00	0.00	0.00	0.00	0.00	7.71	7.71	0.00	0.00	0.00	0.00	0.00
Surfacing	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0,12	0.25	0.25	0.00	0.00	0.00	0.00
Surfacing	0,17	2.61	0.59	7000	> 1	0.027	0,008	1.027	1.008	0,175	2,631	0.02	0.04	0.04	0.00	0.00	0.00	0.00	0.32	0.64	0.64	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.32	0.32	0.16	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0,42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.11	0.11	0.06	0.00	0.00	0.00	0.00	0.81	0.81	0.41	0.00	0.00	0.00	0,00
Grader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.35	0.46	0.35	0.00	0.00	0.00	0.00
Excavator	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.19	0.19	0.00	0.00	0.00	0,00	0.00	2.86	2.86	0.00	0.00	_0.00	0.00	0.00
Off-Highway Truck	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0,175	2,631	1.04	1.04	0.52	0.00	0.00	0.00	0.00	15.61	15.61	7.81	0.00	0.00	0.00	0.00
Off-Highway Truck	0.17	4.11	0.59	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.147	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.49	0.65	0.49_	0.00	0.00	0.00	0.00
Rubber tire loader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.24	0.08	0.00	0.00	0.00	0.00
Rarking				A . 1007				4 007		0.405	0.004						0.00	0.00		0.26		0.00		0.00	0.00
Crawler Tractors	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.03	0.02	0.00	0.00_	0.00	0.00	0.00	0.36	0.24	0.00	0.00	0.00	0.00
Scraper	0.17	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.24	0.10	0.00	0.00	0.00	0.00
Surfacing Surfacing	0.19	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.14	0.10	0.00	0.00	0.00	0.00
Excavator	0.17	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.09	0.25	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.19	3.03	0.39	4667	>1	0.027	0.008	1.027	1.008	0.133	3.054	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.13	0.09	0.00	0.00	0.00	0.00
Paving Equipment	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.00	0.00	0,00	0,00	0,00	0.00	0.09	0.06	0.00	0.00	0.00	0.00
Paving Equipment	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00
Support Road (inc. Q		5562990035	Gintle A	Ø. 11	es des se es	22222	Million	and the second	43°& -		(###\$12,255)		HEADING	Silver		- 45 26	Self-Selfand			STREET.		1.2.2.2			
Crawler Tractors	0.19	2.61	0.59	4667	>1	0.027	0,008	1.027	1,008	0.195	2.631	0.08	0.13	0.05	0.00	0.00	0.00	0.00	1.09	1.81	0.72	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2)	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.13	0.11	0.01	0.00	0.00	0.00	0.00	1.92	1.73	0.19	0.00	0.00	0.00	0.00
Scraper (dual engine 2/2)	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	_1.008_	0.175	2.631	0.12	0.11	0.01	0.00	0.00	0.00	0.00	1.78	1.60	0.18	0.00	0.00	0.00	0.00
Surfacing	0,19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.11	0,18	0.07	0.00	0.00	0.00	0,00
Surfacing	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.04	0.06	0.02	0.00	0.00	0.00	0.00	0.55	0.92	0.37	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.27	0.46	0.18	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.054	0.03	0,06	0.02	0,00	0.00	0.00	0.00	0.23	0.39	0.16	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.21	0.35	0.14	0.00	0.00	0.00	0.00
Paving Equipment	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.00	0.00	0.00	0,00	0.00	0.00	0.09	0.06	0.00	0.00	0.00	0,00
Paving Equipment	0,19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	0.00
Off-Highway Truck	0.17	4.11	0.59	7000	>1	0.034	0.009	1.034	1.009	0.176	4.147	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.45	0.75	0.30	0.00	0.00	0.00	0.00

BBNPP General Conformity Applicability Analysis Appendix B

Nonroad Engine Emissions Bell Bend Non-road NOx-VOC

Total Construction NOx and VOC Emissions from Non-road Engines Table B-1a

Equipment		Engine Technology	No.of Equipment	Equipment Horsepower	Fuel	Total	Year 1	.	Year	2	Year 3		Year 4		Year	6	Year 6		Year 7	estation of the second s
Type 1	∻_scc1	Type	guipment. #	hp.	_Туре_	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours
	2012 C.	January JP-	States and the second	The second s	mancen. Anterne	1967 (1974) 1967 (1974)	Ореганол ж	Checkensone	Operation	1 IOUI 8g	Operation 3	all and a second	Operation 78	mourage mourage	[Operation] 30		Noperunon?/	Notes and the second se	Coperation, N	North Control
Crawler Tractors	2270002069		4	700 Hp	Diesel	2,400	30%	720	50%	1,200	20%	480	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	и тз		400 Hp	Diesel	360	30%	108	50%	180	20%	72	0%	ŏ	0%	0	0%	0	0%	ō
Excavator	2270002036	T3	3	148 Hp	Diesel	1.440	30%	432	50%	720	20%	288	0%	ŏ	0%	l ő	0%	Ō	0%	0
Grader	2270002048		1	259 Hp	Diesel	400	30%	120	50%	200	20%	80	0%	Ö	0%	1 0	0%	0	0%	0
Boring/Soils investig			Mary Soc. 2	1. Contraction in the	1.2001.2002.000	NO KORK	2010/06/06/07/20	See Side		1000000		1000000000	1990-500-1994-189-5-13	ALCONTRACTOR			Contraction States Law	82.44/2	Martin Carlos and Carlo	3600.000
Bore/Drill Rig	2270002033	3 T2	1	420 Hp	Diesel	246	100%	246	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Underground utilities		truns, groundi	ng	1	2	94. AXXIS		0.36954		6.33	Sec. Monal & March	(and a second	200 MB-2-2022 2086	補助設設	(Research the second	8.08			*****	SAR STR
Crane	2270002045	5 T3	2	160 Hp	Diesel	1,126	0%	0	50%	563	50%	563	0%	0	0%	0	0%	0	0%	0
Crawler Tractors	2270002069	тз	2	235 Hp	Diesel	1,690	0%	0	50%	845	50%	845	0%	0	0%	0.	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	5 ТЗ	6	102 Hp	Diesel	5,069	0%	0	40%	2,028	30%	1,521	30%	1,521	0%	0	0%	0	0%	0
Excavator	2270002036	5 T3	2	148 Hp	Diesel	1,690	0%	0	60%	1,014	40%	676	0%	0	0%	0	0%	0	0%	0
Dumper/Tener	2270002078	3 T3	1	400 Hp	Diesel	845	0%	0	50%	422	40%	338	10%	84	0%	0	0%	0	0%	0
Warehouse & Storag		1		B. C. Berry	经 预算器制度				18 I 8 P			治療に必		THE WEEK		1004		. Kana kana kana kana kana kana kana kana		
Forklift	2270003020		2	94 Hp	Diesel	8,378	0%	0	10%	838	20%	1,676	30%	2,513	25%	2,094	10%	838	5%	419
Crane	2270002045	5 <u>T3</u>	2	160 Hp	Diesel	9,574	0%	0	10%	957	20%	1,915	30%	2,872	25%	2,394	10%	957	5%	479
Forklift (rough)	2270002057	7 T3	1	115 Hp	Diesel	5,386	0%	0	10%	539	20%	1,077	30%	1,616	25%	1,346	10%	539	5%	269
IIA: Civil / Concrete Stru		A CONTRACTOR OF			Singer:	Ville III	er siner test			28.68.86			3502754 2 28866	120.0998		Xe Xe		Contractory of the		232223×
Bridge Construction				700 Ha	Discol	46.000	004		2004	720	20%	1.080	30%	1 090	20%	720	0%	0	0%	0
Crawler Tractors	2270002069	<u>T3</u>	2	700 Hp	Diesel	3,600	0%	0	20%	720	30% 30%	720	30%	1,080	20%	480	0%	0	0%	0
Crawler Tractors	2270002069		2	305 Hp 400 Hp	Diesel Diesel	2,400	0%	0	20%	480	30%	648	30%	648	20%	432	0%	0	0%	1 ö
Surfacing	2270002024	1 <u>T3</u>	4	148 Hp	Diesel	4,800	0%	0	20%	960	30%	1,440	30%	1,440	10%	432	10%	480	0%	1 ŏ
Excavator	2270002036	6 T3 73	4	259 Hp	Diesel	4,800	0%	0	20%	192	30%	288	30%	288	20%	192	0%		0%	1 o
Grader Tractor/Loader/Backhoe	2270002046	5 13 5 T3	3	80 Hp	Diesel	3,802	0%	0	20%	760	30%	1,140	30%	1.140	10%	380	10%	380	0%	ŏ
Crane	2270002000	5 T3	4	160 Hp	Diesel	4,224	0%	l õ	20%	845	30%	1,140	30%	1,140	10%	422	10%	422	0%	ŏ
Crane	2270002045	5 T2	2	355 Hp	Diesel	2,112	0%	lŏ	20%	422	30%	634	30%	634	20%	422	0%	0	0%	0
Pump	2270006010	T3	1	300 Hp	Diesel	528	0%	ŏ	10%	53	30%	158	30%	158	20%	106	10%	53	0%	ŏ
Forklift (rough)	2270002057	7 T3	2	115 Hp	Diesel	1.901	0%	ŏ	10%	190	30%	570	30%	570	20%	380	10%	190	0%	Ō
Rubber tire loader	2270002060		1	262 Hp	Diesel	1,056	0%	ō	10%	106	30%	317	30%	317	20%	211	10%	106	0%	0
Sheet Piling	100.000	a an	No. Statement Sec.	1.400 Marcine at 16.00	South a state	11.11.19.14		ACR 1001-8	170 Carlos Carlos	auto the	SALWARK WA	Stevenson -	100000.000000000	9447.44	State and	and a second	Sector Content		Sala Na Angel	200822000C
Crane	2270002045	5 T3	1	205 Hp	Diesel	352	0%	0	50%	176	50%	176	0%	0	0%	0	0%	0	0%	0
Crane	2270002045	5 T3	2	160 Hp	Diesel	493	0%	0	50%	246	50%	246	0%	0	0%	0	0%	0	0%	0
Structural Concrete	0042422494460			100000000000000000000000000000000000000	Statistics.	And 1885	1000 AN 1965				ACC INCOME.			5.2 2 8.66	1. 100 Mar		estation and the		Kangengetin	1962-56920R
Pump	2270006010) T3	5	300 Hp	Diesel	7,500	0%	0	10%	750	30%	2,250	30%	2,250	20%	1,500	5%	375	5%	375
Crane	2270002045	5 T2	5	355 Hp	Diesel	7,920	0%	0	10%	792	30%	2,376	30%	2,376	20%	1,584	5%	396	5%	396
Crane	2270002045	5 T3	5	160 Hp	Diesel	9,504	0%	0	10%	950	30%	2,851	30%	2,851	20%	1,901	5%	475	5%	475
Forklift (rough)	2270002057	7 <u>T3</u>	6	115 Hp	Diese	17,107	0%	0	10%	1,711	30%	5,132	30%	5,132	20%	3,421	5%	855	5%	855
Rubber tire loader	2270002060		2	262 Hp	Diesel	6,336	0%	0	10%	634	30%	1,901	30%	1,901	20%	1,267	5%	317	5%	317
Tractor/Loader/Backhoe	2270002066		4	80 Hp	Diesel	12,672	0%	0	10%	1,267	30%	3,802	30%	3,802	20%	2,534	5%	634	5%	634
Non-Power Block (O				100.15		300 GC			00/		700/	E OAC	200/	2 5 4 7	0%		00/		00/	10000
Crane	2270002045	5 T3	2	160 Hp	Diesel	8,490	0%	0	0%	0	70%	5,943	30%	2,547	0%	0	0%	0	0%	0
Pump	2270006010	T3	3	300 Hp	Diesel	1,901	0%	0	0%	_0	70%	1,331	30%	570	0%	0	0%	0	0%	0
Crane	2270002045		2	355 Hp	Diesel	6,336	0%	0	0%	0	70%	4,435	30%	1,901	0%	0	0%	0	0%	0
Forklift (rough)	2270002057	' <u>T3</u>	1	115 Hp	Diesel	1,901	0%	0	0%	0	70%	1,331	30%	570	0%		0%	0	0%	0
Switchyard		100 200 00000			525353	2000 0.000	0///06/06/000	2014263		000.000	500/	3638253222	121212000000000000000000000000000000000	4.007	100	047	000			
Crane	2270002045	5 ТЗ	2	160 Hp	Diesel	3,168	0%	0	0%	0	50%	1,584	40%	1,267	10%	317	0%	0	0%	0
Pump	2270006010	T3	3	300 Hp	Diesel	950	0%	0	0%	0	75%	713	25%	238	0%	0	0%	0	0%	0
Crane	2270002045		1	355 Hp	Diesel	792	0%	0	0%	0	75%	594	25%	198	0%	0	0%	0	0%	0
Forklift (rough)	2270002057	<u>' T3</u>	1	115 Hp	Diesel	1,426	0%	0	0%	0	75%	1,069	25%	356	0%	0	0%	0	0%	0
Cooling Tower	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	alatica tek heister	New York Control of the		<i>Masters</i>	2002225	<u>a (1. 11. li de la selle</u>	S.Mittah	*****			39123	200000000000000000000000000000000000000				N. A. S.	+100%X	040-4024(9)(9)(1.000 Carl
Crane	2270002045	5 ТЗ	4	160 Hp	Diesel	8,490	0%	_0	0%	0	0%	0	30%	2,547	70%	5,943	0%	0	0%	0
Crane	2270002045	5 T2	2	355 Hp	Diesel	1,584	0%	0	0%	0	0%	0	30%	475	70%	1,109	0%	0	0%	0
Pump	2270006010) ТЗ	3	300 Hp	Diesel	1,901	0%	0	0%	0	0%	0		570	70%	1,331	0%	0	0%	0
Forklift (rough)	2270002057	<u>T3</u>	1	115 Hp	Diesel	2,851	0%	0	0%	0	0%	0	30%	855	70%	1,996	0%	0	0%	0

BBNPP General Conformity Applicability Analysis Appendix B

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Tanan ing Katalan ing Katala	Criteria	Pollutants	Meria Seco	Median	12806530885	005305708	660 60 Boy	Deterio	oration	Adjus	ted EF			Coministantes		CARACTER ST	En	nissions	(tons) ⁶	×***?**		1000003	14. A.S.	Kulika k	18 A -
Equipment	EFss (o	/hn-hr) ²	Load	Life 3	Age	Δ"		fact	or 4	(a/hc)-hr):5	Maria	2		HC	Serve Serve				200 2 (10)		NOx	1000	M 129	
Type '	HC		Factor ²	Hours	Factor ⁴	енс 🐲	©NOx®	HC	NOx	НС	NOX	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
South Lavdown	10.001 * 36.004	CO-CARACTERICORDINATION	Inclusion of the second	10000000	ALC: CONTRACTOR	College and	2-142000 - 745	100000000000000000000000000000000000000	10000000000000000000000000000000000000		CHERICAL CONTRACTOR		999999999999	COLOR CONTRACTO	Contractor of the	S. Markeller	N.20.004-000	0008484866	anoxi in Sect	-accessionally	and the second	Restance		6100 CONNEC	
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.06	0.10	0.04	0.00	0.00	0.00	0.00	0.86	1.44	0.57	0.00	0.00	0.00	0.00
Surfacing	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.12	0.05	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.11	0.18	0.07	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0,59	4667	>1	0.027	0.008	1.027	1.008	0,195	2.631	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.04	0.00	0.00	0.00	0.00
Boring/Soils investig	in a subscription	Geodesis (Colord	100040340587.4	2008-11-14	322336549	71243910	26126225	arthiologia	UN ALARIA		36.25 36.4 5 36.	1002233880-	1970-9890-999					2000	20002000		Sec.	2000000000			
Bore/Drill Rig	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Underground utilities				480995x/144	iiliguda			189 - 1987 de	2.30000000s		MARCH MARK	Station of the	\$128576235	253,089,965	1288 S.S.S.				30. P.M.	1.000					
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00
Crawler Tractors	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	>1	0.027	0,008	1.027	1.008	0.431	3.054	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.15	0.11	0.11	0,00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.26	0.17	0.00	0.00	0.00	_0.00
Dumper/Tener	0.38	3.03	0.21	7000	>1	0.027	0.008	1.027	1.008	0.390	3.054	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.12	0.10	0.02	0.00	0.00	0.00
Warehouse & Storag		200000000000000000000000000000000000000		1000	Sellette Arth.	<i>187721.72</i>		91/32/39/39/39. 4 007	4.000	0.405			0.04	0.00	0.00				0.00	0.16	0.20	0.49	0.40	0.16	
Forklift	0.19	3.13	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	3.155	0.00	0.01	0.02	0.03	0.02	0.01	0.00	0.00	0.16	0.32	0.48	0.40	0.16	0.08
Crane Ead(lift (rough)	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.01	0.03	0.04	0.03	0.01	0.00	0.00	0.18	0.37	0.55	0.46	0.18	0.09
Forklift (rough)	U. 19 Configuration of the off		0.59	4007				1,027			Weither fire a specie	0.00	0.01	0.02	0.02		0.01	0.00	0.00		0.21	0.52	0.20	0.11	
IIA: Civil / Concrete Strue Bridge Construction	and a second second		2012204020005060600000000 21100-0000000000000000000000000	08860.350567588 	3366563778 1220 - W. S. C. W.		1998/1894/1894 1999/1997/1992	COM COLOMAN	an search.		anto de decide. Antopolitación	20000000000000000000000000000000000000	00000000000000000000000000000000000000	989202398-989 67927288632	or offer classic (%)	International Contractor	CHINERROMANI		in to the second	Section of the	NO. CHARGE	North Contraction	100-000-000	2000-101-000	AND CONTRACTOR
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.06	0.09	0.09	0.06	0.00	0.00	0.00	0.86	1.29	1.29	0.86	0.00	0.00
Crawler Tractors	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.25	0.38	0.38	0.25	0.00	0.00
Surfacing	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.02	0.03	0.03	0.02	0.00	0.00	0.00	0.30	0.44	0.44	0.30	0.00	0.00
Excavator	0.19	2,61	0,59	4667	>1	0.027	0.008	1.027	1.008	0,195	2.631	0.00	0.02	0.03	0.03	0.01	0.01	0.00	0.00	0,24	0,36	0.36	0.12	0,12	0.00
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.09	0.13	0.13	0.09	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.01	0.01	0.01	0.00	0.00	0,00	0.00	0.05	0.08	0.08	0.03	0.03	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.01	0.02	0.02	0.01	0.01	0.00	0.00	0.16	0.24	0.24	0.08	0.08	0.00
Crane	0.17	4.34	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.01	0.02	0.02	0.01	0.00	0.00	0.00	0.31	0.47	0.47	0.31	0.00	0.00
Pump	0	0	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.000	0.000	0,00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.04	0.11	0.11	0.07	0.04	0.00
Rubber tire loader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.14	0.14	0.09	0.05	0.00
Sheet Piling	1000 202000	undale date de	COMPANY COMPANY	3511/3148/09.	99999999999 1999	19919/AUX	- 19 CO	3/1/6/62000	12,000,000,000		12 11 10000	AND DA	200000	- 100 - 100	2000 C 200							0.00			
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2,520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00
Structural Concrete	1966 1996 1995 1995 0	0	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pump Crane	0.17	4.34	0.43	7000	>1	0.027	0.009	1.027	1.009	0.176	4.379	0.00	0.02	0.00	0.00	0.05	0.00	0.00	0.00	0.58	1.75	1.75	1.17	0.29	0.29
Crane	0.17	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0,185	2.520	0.00	0.02	0.07	0.07	0.03	0.01	0.01	0.00	0.18	0.54	0.54	0.36	0.09	0.09
Forklift (rough)	0.10	2.61	0.45	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.02	0.07	0.07	0.05	0.01	0.01	0.00	0.34	1.01	1.01	0.67	0.00	0.00
Rubber tire loader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1,008	0,195	2.631	0.00	0.02	0.06	0.06	0.04	0.01	0.01	0.00	0.28	0,85	0,85	0.57	0.14	0.14
Tractor/Loader/Backhoe	0.42	3.64	0.21	4667	>1	0.027	0,008	1.027	1.008	0.431	3.669	0.00	0.01	0.03	0.03	0.02	0.01	0.01	0.00	0.09	0.26	0.26	0.17	0.04	0.04
Non-Power Block (Ou	the state of the second se	149963463577#C	1.1.11.1.11.11.11.11.11.11.11.11.11.11.	ann an	3872533995	Carlos Marco	in the second	999000000	Send Maria		azzeristatu	240Mai 78	<u> Mindows</u> () ()	in statum.	edinterita	na dette	2002/2002/2002	100 COLLAN	900009		a main	1.00	32-234		1.1000
Crane	0.18	2,5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.08	0.04	0.00	0.00	0.00	0.00	0.00	1.14	0.49	0.00	0.00	0.00
Pump	0	0	0.43	4667	>1	0.027	0.008	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.17	4.34	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.13	0.06	0.00	0.00	0.00	0.00	0.00	3.27	1.40	0.00	0.00	0,00
Forklift (rough)	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.26	0.11	0.00	0.00	0.00
Switchyard	COMPANIA D	NAMER EN MAL	24211/2010/201	1114/18/147	19.07.07.07.07.	alan (tay pis	4497.464	in in the	14 (19 11)	gintenti i i	and the second second	all the second		1.46	t de la contra de la	di sana an	Maria Ma Maria Maria Mari			*******	46.000		MENNESKI		
Crane	0.18	2.5	0.43	4667	· >1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.30	0.24	0.06	0.00	0.00
Pump	0	0	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.44	0.15	0.00	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1,008	0,195	2.631	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.21	0.07	0.00	0.00	0.00
Cooling Tower	CARNER S	8.38000 (.C.	N. H. H. Martin and		mande		and the second	secolditta	0.//12/78 <u>/</u> 2/2	AMA ST	794677844.//j	a state and a state of the	anna an	electro de la		UN MAR	e de al	27.2.43.	2452X-245	(SAUD)					
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.04	0.08	0.00	0.00	0.00	0,00	0,00	0.49	1.14	0.00	0.00
Crane	0.17	4.34	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.35	0.82	0.00	0.00
Pump	0	0	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0,195	2.631	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.17	0.39	0.00	0.00

BBNPP General Conformity Applicability Analysis Appendix B

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Nonroad Engine Emissions Bell Bend Non-road NOx-VOC

		Engine	No:of	Equipment	(Ruel)	Total	Yeark	1	Year		Years		Year4		Year/5		Year/6		Verr/	7
Eculoment Typed	8000 °	Technology	Equipment	Horsepower?	Туре	Hours								1.722.64.83						
SUSPACEMENT AND DEC. OF THE PERSON AND DECEMBER A		Туре		hp	See a second		Operation %	Hours	Operation %	Hours	Operation %	Hours	[Operation]%]	Hours	Operation %	_	Operation %	Hours	Operation %	Hours
IIB. Superstructure & S			and the second						115 KA * 25											
Structural & Buildin									1. A.	2.12.2					AND A CONTRACTOR OF A CONTRACT OF					
Crane	2270002045	T2	5	355 Hp	Diesel	5,280	0%	. 0	0%	0	20%	1,056	75%	3,960	5%	264	0%	0	0%	0
Crane	2270002045	Т3	4	400 Hp	Diesel	4,224	0%	0	0%	0	20%	845	75%	3,168	5%	211	0%	0	0%	0
Crane	2270002045	<u>T3</u>	7	160 Hp	Diesel	9,905	0%	0	0%	0	20%	1,981	75%	7,429	5%	495	0%	0	0%	0
Crane	2270002045	T3	7	173 Hp	Diesel	8,870	0%	0	0%	0	20%	1,774	75%	6,653	5%	<u>444</u> 507	0%	0	0%	
Aerial Lift	2270003010	T3	8	65 Hp	Diesel	10,138	0%	0	0%	0	20%	2,028	75%	7,603	5% 5%	507	0%	0	0%	0
Aerial Lift	2270003010	T3	8	74 Hp	Diesel	10,138	0%	0	0%	0	20%	2,028	75%		5%	507	0%	0	0%	0
Forklift (rough)	2270002057	T3	8	115 Hp	Diesel	10,138	0%	0	0%	0	20%	2,028	75%	7,603	5% 2%	507	0%		0%	
Building Modules &	is in a second framework highlight is a second s	To To		***			0%	OK AN INDEX RAP 4	A V 100	0	0%	0	50%	422	50%	422	0%	0	0%	O
Crane	2270002045	T3 T3	1	600 Hp	Diesel Diesel	845	0%	0	0%	0	50%	211	50%	211	0%	422	0%	0	0%	0
Crane	2270002045	13		1,200 Hp	Diesei	422	0%		0%			211	50%	211	0%		0%	C		
Building Siding //Ins		T3	Concernance and the second	second as the second side of the	Diesel	Manager and a second se	0%	0	0%	0	0%	0	30%	317	70%	739	0%	0	0%	0
Crane Aerial Lift	2270002045	T3	2	160 Hp 74 Hp	Diesel	1,056	0%		0%		0%	0	30%	665	70%	1.552	0%	0	0%	1 õ
	2270003010		2	115 Hp	Diesel	1.056	0%	6	0%		0%	0	30%	317	70%	739	0%	0	0%	ŏ
Forklift (rough)	2270002057	13		пэпр	Diesei	1,056	0%		0%				30%	2011	1078					
Crane	2270002045	T3	2	160 Hp	Diesel	950	0%	0	0%	0	0%	0	0%	0	100%	950	0%	0	0%	0
Aerial Lift	2270002045		3	74 Hp	Diesel	1,426	0%	0	0%		0%	ŏ	0%	ő	100%	1.426	0%	0	0%	ő
Forklift (rough)	2270002057	T3	2	115 Hp	Diesel	950	0%	1 õ	0%	0	0%	0	0%	ŏ	100%	950	0%	0	0%	0
IIIA Nechanical Installa			Part at		Dieser									ACCREASES AND	NO. NO. NO. NO.					
Mechanical Installat			2.2.5.5. Pt						Service and the service and	1210205-000	2752 6438 640				Section Section 2	2000				1000000000
Crane	2270002045	T3	5	160 Hp	Diesel	14.784	0%	0	0%	0	20%	2,957	50%	7,392	20%	2,957	10%	1,478	0%	0
Crane	2270002045	T3	3	173 Hp	Diesel	2,534	0%	Ō	0%	0	20%	507	50%	1,267	20%	507	10%	253	0%	0
Crane	2270002045	T2	5	355 Hp	Diesel	4,224	0%	0	0.04	0	0.004	845	50%	2,112	0.001/				0%	
Crane									0%	1 0	20%	840	J 30%	2,112	20%	845	10%	422	0%	
	2270002045	T3	2	400 Hp	Diesel	1,690	0%	0	0%	0	20%	338	50%	845	20%	845 338	10% 10%	422	0%	0
Crane	2270002045	T3 T3	2	400 Hp 500 Hp				-												-
Crane Aerial Lift					Diesel	1,690	0%	0	0%	0	20%	338	50%	845	20%	338	10%	169	0%	0
	2270002045	T3	1	500 Hp	Diesel Diesel	1,690 845	0% 0%	0	0% 0%	0	20% 20%	338 169 1,056 1,056	50% 50% 50% 50%	845 422 2,640 2,640	20% 20% 20% 20%	338 169 1,056 1,056	10% 10% 10% 10%	169 84 528 528	0% 0% 0%	0 0 0 0
Aerial Lift	2270002045 2270003010	T3 T3	 1 5	500 Hp 65 Hp	Diesel Diesel Diesel	1,690 845 5,280	0% 0% 0%	0 0 0 0	0% 0% 0%	0	20% 20% 20% 20% 30%	338 169 1,056 1,056 1,774	50% 50% 50%	845 422 2,640	20% 20% 20% 20% 15%	338 169 1,056 1,056 887	10% 10% 10% 10% 15%	169 84 528 528 887	0% 0% 0% 0%	0 0 0
Aerial Lift Aerial Lift	2270002045 2270003010 2270003010 2270002057	T3 T3 T3 T3	 	500 Hp 65 Hp 74 Hp	Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280	0% 0% 0% 0%	0 0 0	0% 0% 0%	0 0 0	20% 20% 20% 20%	338 169 1,056 1,056	50% 50% 50% 50%	845 422 2,640 2,640	20% 20% 20% 20%	338 169 1,056 1,056	10% 10% 10% 10%	169 84 528 528 887	0% 0% 0%	0 0 0 0
Aerial Lift Aerial Lift Forklift (rough)	2270002045 2270003010 2270003010 2270002057 Din Subscription & Market State Till Subscription & Market State State State	T3 T3 T3 T3 T3 T3	- 1 5 5 2	500 Hp 65 Hp 74 Hp	Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914	0% 0% 0% 0%	0 0 0 0	0% 0% 0% 0%		20% 20% 20% 30%	338 169 1,056 1,056 1,774	50% 50% 50% 40%	845 422 2,640 2,640 2,365	20% 20% 20% 15%	338 169 1,056 1,056 887	10% 10% 10% 15%	169 84 528 528 887	0% 0% 0% 0%	0 0 0 0 0
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio	2270002045 2270003010 2270003010 2270002057 01 3200000057 01 3200000057	T3 T3 T3 T3 T3 T3 T3	- 1 5 2 2	500 Hp 65 Hp 74 Hp 115 Hp 160 Hp	Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 4,435	0% 0% 0% 0%		0% 0% 0% 0%		20% 20% 20% 30%	338 169 1,056 1,056 1,774 665	50% 50% 50% 40% 40%	845 422 2,640 2,640 2,365 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	20% 20% 20% 15%	338 169 1,056 1,056 887 887 887	10% 10% 10% 15% 15%	169 84 528 528 887 665	0% 0% 0% 0%	0 0 0 0 0 0 0 0 0 0 0 0 0
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical/Installatio Crane Crane	2270002045 2270003010 2270003010 2270002057 00 00 00 00 00 00 00 00 00 00 00 00 00	T3	- 1 5 2 2 5 5 3	500 Hp 65 Hp 74 Hp 115 Hp 160 Hp 173 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 8 8 4,435 3,168	0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15%	338 169 1,056 1,056 1,774 665 475	50% 50% 50% 40% 40%	845 422 2,640 2,365 2,365 1,774 1,267	20% 20% 20% 15% 20% 20%	338 169 1,056 1,056 887 887 887 634	10% 10% 10% 15% 15% 15%	169 84 528 528 887 665 475	0% 0% 0% 0% 10%	0 0 0 0 444 317
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045	T3	- 1 5 2 2 5 3 5	500 Hp 65 Hp 74 Hp 115 Hp 160 Hp 173 Hp 355 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 4,435 3,168 5,280	0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792	50% 50% 50% 40% 40% 40% 40%	845 422 2,640 2,365 4,365 1,774 1,267 2,112	20% 20% 20% 15% 20% 20% 20% 20%	338 169 1,056 1,056 887 887 634 1,056	10% 10% 10% 15% 15% 15% 15%	169 84 528 528 887 665 475 792	0% 0% 0% 0% 10% 10%	0 0 0 0 4444 317 528
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical;Installatio Crane Crane Crane Crane Crane	2270002045 2270003010 2270002057 227002057 227002057 227002045 2270002045 2270002045 2270002045	T3	1 5 2 5 3 5 3 5 2	500 Hp 65 Hp 74 Hp 115 Hp 160 Hp 173 Hp 355 Hp 400 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 4,435 3,168 5,280 2,112	0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317	50% 50% 50% 40% 40% 40% 40%	845 422 2,640 2,640 2,365 4 1,774 1,267 2,112 845	20% 20% 20% 15% 20% 20% 20% 20% 20%	338 169 1,056 1,056 887 887 634 1,056 422	10% 10% 10% 15% 15% 15% 15% 15%	169 84 528 528 887 665 475 792 317	0% 0% 0% 0% 10% 10%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Crane Crane	2270002045 2270003010 2270002057 00002057 00002055 2270002045 2270002045 2270002045 2270002045 2270002045	T3 T3 T2 T3 T3 T3	1 5 2 2 5 3 5 2 1	500 Hp 65 Hp 74 Hp 115 Hp 160 Hp 173 Hp 355 Hp 400 Hp 500 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 4,435 3,168 5,280 2,112 1,056	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317 158	50% 50% 50% 40% 40% 40% 40% 40% 40%	845 422 2,640 2,640 2,365 4,365 4,365 1,774 1,267 2,112 845 422	20% 20% 20% 15% 20% 20% 20% 20% 20% 20%	338 169 1,056 1,056 887 887 634 1,056 422 211	10% 10% 10% 15% 15% 15% 15% 15%	169 84 528 528 528 887 665 475 792 317 158 887	0% 0% 0% 0% 10% 10% 10% 10% 10%	0 0 0 0 4444 317 528 211 106
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical/Installatio Crane Crane Crane Crane Crane Crane Crane Aerial Lift	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045	T3	1 5 5 2 5 3 5 5 2 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	500 Hp 65 Hp 74 Hp 115 Hp 160 Hp 173 Hp 355 Hp 400 Hp 500 Hp 65 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,914 3,914 4,435 3,168 5,280 2,112 1,056 5,280	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317 158 792	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40%	845 422 2,640 2,365 444 1,774 1,267 2,112 845 422 2,112	20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20%	338 169 1,056 1,056 887 887 634 1,056 422 211 1,056	10% 10% 10% 15% 15% 15% 15% 15% 15% 15%	169 84 528 528 887 665 475 792 317 158 792	0% 0% 0% 0% 10% 10% 10% 10% 10% 10%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Aerial Lift Aerial Lift	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045	T3	1 5 2 2 5 3 5 2 1	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 160 Hp 173 Hp 355 Hp 400 Hp 500 Hp 65 Hp 74 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 3,168 5,280 2,112 1,056 5,280 5,280	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 5% 15% 15% 15% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317 158 792 792 792	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40%	845 422 2,640 2,365 444 2,365 444 1,774 1,267 2,112 845 422 2,112 2,112	20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20%	338 169 1,056 887 887 634 1,056 422 211 1,056 1,056	10% 10% 10% 15% 5% 15% 15% 15% 15% 15% 15%	169 84 528 528 887 665 475 792 317 158 792 792 792 792 792	0% 0% 0% 0% 10% 10% 10% 10% 10% 10%	0 0 0 0 4444 317 528 211 106 528 528
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Aerial Lift Aerial Lift Crane	2270002045 2270003010 2270002057 012270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270003010 2270003010	T3	1 5 2 2 5 3 5 2 1 5 5 1	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 173 Hp 355 Hp 400 Hp 500 Hp 65 Hp 74 Hp 355 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,914 4,435 3,168 5,280 2,112 1,056 5,280 5,280 845	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317 158 792 792 127	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 4	845 422 2,640 2,365 3,365 1,774 1,267 2,112 845 422 2,112 2,112 338	20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	338 169 1,056 887 887 634 1,056 422 211 1,056 1,056 169	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15%	169 84 528 528 887 665 475 792 317 158 792 792 792 792 792 792 127	0% 0% 0% 0% 10% 10% 10% 10% 10% 10% 10%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical:Installatio Crane	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045	T3	1 5 2 8 5 3 5 5 2 1 5 5 1 2	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 160 Hp 173 Hp 355 Hp 400 Hp 500 Hp 65 Hp 74 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,280 5,280 4,435 3,168 5,280 2,112 1,056 5,280 5,280 5,280 845 5,2914	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	338 169 1,056 1,056 1,774 665 475 792 317 158 792 792 127 887	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 4	845 422 2,640 2,365 3,365 1,774 1,267 2,112 845 422 2,112 2,112 338 2,365	20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	338 169 1,056 887 887 634 1,056 422 211 1,056 1,056 169 1,183	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	169 84 528 528 887 665 475 792 317 158 792 792 127 887	0% 0% 0% 0% 10% 10% 10% 10% 10% 10%	0 0 0 0 4444 317 528 211 106 528 528
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Crane Aerial Lift Aerial Lift Aerial Lift Forklift (rough) IV3Major2Equipment?(htt)	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270003010 2270003010 2270003010 2270002045	T3 T3	1 5 2 2 5 3 5 2 1 5 5 1	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 160 Hp 173 Hp 355 Hp 400 Hp 500 Hp 65 Hp 74 Hp 355 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 8 4,435 3,168 5,280 2,112 1,056 5,280 845 5,280 845 5,914	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317 158 792 317 158 792 792 127 887	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 4	845 422 2,640 2,640 2,365 1,774 1,267 2,112 845 422 2,112 2,112 2,112 338 2,365	20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	338 169 1,056 887 887 634 1,056 422 211 1,056 1,056 1,056 1,056	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15%	169 84 528 528 887 665 475 792 317 158 792 317 158 792 792 127 887	0% 0% 0% 0% 10% 10% 10% 10% 10% 10% 10%	0 0 0 0 4444 317 528 211 106 528 528 84 591
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Aerial Lift Aerial Lift Crane Forklift (rough) IVMMajor2Equipment{(he Crane	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002057 2270002057	T3 Dyement T3	1 5 2 3 5 3 5 2 1 5 5 5 1 2 1 2 1 1 2 1	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 160 Hp 355 Hp 355 Hp 400 Hp 65 Hp 74 Hp 355 Hp 115 Hp 115 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 84,435 3,168 5,280 2,112 1,056 5,280 5,280 5,280 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 845 5,280 5	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15% 15%	338 169 1,056 1,056 1,774 665 475 792 317 158 792 792 792 792 127 887 887	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 50% 40% 40% 50% 50% 50% 50% 50% 50% 50% 50% 50% 5	845 422 2,640 2,640 2,365 2,365 2,365 2,365 2,365 422 2,112 338 2,365 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,385 2,540 2,	20% 20% 20% 20% 20% 20% 20% 20% 20% 20%	338 169 1,056 887 887 634 1,056 422 211 1,056 1,056 1,056 1,183 264	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	169 84 528 528 887 665 475 792 317 158 792 127 887 26	0% 0% 0% 0% 10% 10% 10% 10% 10% 10% 10%	0 0 0 0 444 317 528 211 106 528 528 528 84 591
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Aerial Lift Aerial Lift Aerial Lift Crane Forklift (rough) IV3Major2Equipment!(he Crane Crane	2270002045 2270003010 2270002057 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045	T3	1 5 2 5 3 5 2 1 5 5 5 1 2 1 2 1 2 1 1	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 1355 Hp 173 Hp 355 Hp 400 Hp 65 Hp 74 Hp 355 Hp 115 Hp 115 Hp 500 Hp 600 Hp 600 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,291 4,435 3,168 5,280 2,112 1,056 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,281 5,280 5,	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	338 169 1,056 1,056 1,774 665 475 792 317 792 317 792 792 127 87 92 53 53	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 4	845 422 2,640 2,365 440 2,365 442 1,774 1,267 2,112 845 422 2,112 2,112 338 2,365 422 2,112 338 158	20% 20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	338 169 1,056 1,056 887 634 1,056 422 211 1,056 1,056 1,056 1,056 1,056 1,183 264 264	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	169 84 528 528 887 665 475 792 317 158 792 792 127 887 26 26	0% 0% 0% 0% 10% 10% 10% 10% 10% 10% 10%	0 0 0 0 4444 317 528 528 528 528 84 591
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Crane Aerial Lift Aerial Lift Crane Forklift (rough) IV3Major2Equipment?(he Crane Crane Crane Aerial Lift Crane Forklift (rough)	2270002045 2270003010 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045	T3 T3	1 5 2 8 5 3 5 5 2 1 5 5 1 2 1 2 3 1 2 2 1 1 2	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 160 Hp 173 Hp 355 Hp 500 Hp 65 Hp 74 Hp 355 Hp 115 Hp 115 Hp 600 Hp 600 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,914 84,435 3,168 5,280 2,112 1,056 5,280 5,280 845 5,914 845 5,280 845 5,280 845 5,281 845 845 845 845 845 845 845 845 845 845	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	338 169 1,056 1,056 1,774 665 475 792 317 158 792 317 158 792 792 127 887 53 53 53 0	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 50% 30% 30%	845 422 2,640 2,365 4,365 4,365 4,22 2,112 8,45 4,22 2,112 3,38 2,365 5,338 1,58 1,58 1,58 1,20	20% 20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	338 169 1,056 887 634 1,056 887 634 1,056 422 211 1,056 1,056 169 1,183 264 264 264 180	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	169 84 528 528 887 665 475 792 317 158 792 792 127 887 26 26 0	0% 0% 0% 0% 10% 10% 10% 10% 10% 10% 10%	0 0 0 0 444 317 528 211 106 528 528 528 528 528 528 528 528 528 528
Aerial Lift Aerial Lift Forklift (rough) IIIB3Electrical Installatio Crane Crane Crane Crane Crane Aerial Lift Aerial Lift Aerial Lift Crane Forklift (rough) IV3Major2Equipment!(he Crane Crane	2270002045 2270003010 2270002057 2270002057 2270002057 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045 2270002045	T3	1 5 2 5 3 5 2 1 5 5 5 1 2 1 2 1 2 1 1	500 Hp 65 Hp 74 Hp 115 Hp 115 Hp 1355 Hp 173 Hp 355 Hp 400 Hp 65 Hp 74 Hp 355 Hp 115 Hp 115 Hp 500 Hp 600 Hp 600 Hp	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	1,690 845 5,280 5,280 5,291 4,435 3,168 5,280 2,112 1,056 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,280 5,281 5,280 5,	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0		20% 20% 20% 30% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	338 169 1,056 1,056 1,774 665 475 792 317 792 317 792 792 127 87 92 53 53	50% 50% 50% 40% 40% 40% 40% 40% 40% 40% 40% 40% 4	845 422 2,640 2,365 440 2,365 442 1,774 1,267 2,112 845 422 2,112 338 2,365 422 2,112 338 2,365	20% 20% 20% 20% 15% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	338 169 1,056 1,056 887 634 1,056 422 211 1,056 1,056 1,056 1,056 1,056 1,183 264 264	10% 10% 10% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15	169 84 528 528 887 665 475 792 317 158 792 792 127 887 26 26	0% 0% 0% 0% 10% 10% 10% 10% 10% 10% 10%	0 0 0 0 4444 317 528 528 528 528 84 591

Equipment	Criteria	Pollutants	S. Street and	Median		and the second		Deteri	oration	Adjus	ted EF			68. 1	10 A 10 A		En	nissions	(tons) 6	Sec. 14			1 - N/4	n waard 200	
Type ¹	EFss (g	/hp-hr) ²	Load	Life 2.5	Age	A"		fac fac	tor ⁴	(g/hp	-hr) 5		18.48 W		🐟 HC 📰	· · · · · · · · · · · · · · · · · · ·	1. (1 . (4491 2870	Sec. 1	11.00 30	œ. Martin	盆NOX製	Reise, de	A TRACE	200000
Typer	動產 HC酸盐	NOx	Factor ²	Hours	Factor ⁴	織HC編	製NOX 種	論語 HC 書語	NOx 🙀	1000 HC 1000	鑑NOX鏈	Year 1	Year 2	Year 3	Year 4	Year 5	Year'6	Year.7.	Year 1	Year 2	Year 3	Year,4	Year 5	Year 6	Year 7.
IIB: Superstructure & St		duran a series					\$\$\$\$\$	Makedos ta	A STREET			CONSIST.	100052010	0520840	10-01-0-2	10000000	12000-0005		Section 2	*******	A.25.9439	-	388-44CS		-
###Structural & Building		28.121.CT	WING HEARIN			5 C. 20 T.	1970 SAME	Materia est	6. S	2. 60. 6 .	Michael	Sector Sectors	N. COMPANY	8.26.7.26	appending	100.000	STAT. WILL		8			is a share in		*****	0.0000000
Crane	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.03	0.12	0.01	0.00	0.00	0.00	0.00	0.78	2.92	0.19	0.00	0.00
Crane	0,17	2.5	0.43	7000	> 1	0.027	0.008	1.027	1.008	0,175	2.520	0.00	0.00	0.03	0.10	0.01	0.00	0.00	0,00	0.00	0.40	1.51	0,10	0.00	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.03	0.10	0.01	0.00	0.00	0.00	0.00	0.38	1.42	0.09	0.00	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2,520	0.00	0.00	0.03	0.10	0.01	0,00	0.00	0.00	0.00	0.37	1.37	0.09	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.11	0.42	0.03	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0,06	0.00	0.00	0.00	0.00	0.00	0,13	0.48	0.03	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.03	0.11	0.01	0.00	0.00	0.00	0.00	0.40	1.50	0.10	0.00	0.00
Building Modules & I	den and the second	(http://www.willian	这种"现代的"的	Section 201						100.00000000000000000000000000000000000	## %::###			and the	-38. (MAX)	(and the second se		10100 M				STORE AND		2007	38.23 K
Crane	0.17	2.5	0.43	7000	>1	_0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.30	0.30	0.00	0.00
Crane	0.17	4.1	0.43	7000	> 1	0.027	0.008	1.027	1.008	0.175	4.133	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.50	0,50	0.00	0.00	0.00
Building Siding / Insu			921273 6 478	389985 (205			******	BREAK		1220000	(1999) 2 T			57.034	0500000		******	6369 3			20000	** *****			
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2,520	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.14	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0,00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0,06	0.15	0.00	0.00
Roofing	MESHIKAN				2264 85	1. A. S. S. S.			1.1.1	THE MAKE				and the	5.659			14.00		500%/W		and the state of t		i de la compañía de l	2.98408
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2,520	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0,00	0.00	0.18	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1,008	0,195	2.631	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00
IIIA. Nechanical Installat		etti den selatore	i se			· · · ·	Sec. No.	an a	e e se se station	12.034000004	SALES INC.	1. A.			5,000	2002 208	C. AND R.	100-100			出来的问题	100.400		214 A	100 C
Mechanical Installation			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			100 m 20	THE REAL	1200-0312	1	10000000C	the started	200 100-		的建筑是在	2000	ALC: NO			S.C.		建築設施設	Statis			
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.04	_0.10	0.04	0.02	0.00	0.00	0.00	0.57	_1.41	0.57	0.28	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1,008	0.185	2.520	0.00	0.00	0.01	0,02	0.01	0.00	0.00	0.00	0.00	0.10	0.26	0.10	0.05	0,00
Crane	0.17	4.34	0.43	_7000	>1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.02	0.06	0.02	0.01	0.00	_0.00	0.00	0.62	1.56	0.62	0.31	0.00
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0,00	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.16	0.40	0.16	0.08	0.00
Crane	0.17	2.5	0.43	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.10	0.25	0.10	0.05	0.00
Aerial Lift	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.669	_0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.06	0.15	0.06	0.03	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	_0.07	0.17	0.07	0.03	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.03	0.03	0.01	0.01	0.00	0.00	0.00	0.35	0.47	0.17	0.17	0.00
Electrical Installation					F		Contraction of the second				and the second s		Cherry and			Sec. Sec.		400-16S	Maria Carlos			46.08		C. Martin	- X.A.
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	4.000	0.405	0.500	0.00						3.0998		****		A \$ 2%	10 A		
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.01	0.02	0.01	0.01	0.01	0.00	0.00	0.13	_0.34	0.17	0.13	0.08
Crane	0.18	4.34	0.43	7000	>1	0.027	0.008	1.027	1.008	0.185	2.520	0,00	0,00	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.10	0.26	0.13	0.10	0.07
Crane	0.17	2.5	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.379 2,520	0.00	0.00	0.02	0.06	0.03	0.02	0.02	0.00	0.00	0.58	1.56	0.78	0.58	0.39
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2,520	0.00	0.00	0.01	0.03	0.01	0.01	0.01	0.00	0.00	0.15	0.40	0.20	0.15	0.10
Aerial Lift	0.42	3.64	0.43	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.02	0.01		0.00	0.00	0.00	0.09	0.25	0.13	0.09	0.06
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.01	0.01	0.01	0,00	0.00	0.00	0.04	0.12	0.06	0.04	0.03
Crane	0.42	2.5	0.21	7000	>1	0.027	0.008	1.027	1.008	0.431	2.520	0.00	0.00	0.00			0.01	0.00	0.00	0.00	0.05	0.13	0.07	0.05	0.03
Forklift (rough)	0.17	2.61	0.43	4667	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.14	0.07	0.05	0.04
N:Major Equipment (her	0.13	2.01		4007		_0.027	0.008	1.027	1.000	0.195	2.031	0.00	0.00	0.01	0.05	0.02	0.01	0.01	0.00	0.00	0.17	0.47	0.23	0.17	0.12
Crane	0.17	2.5	0.43	7000	> 1	0.027	0.008	1.027	1.008	0,175	2.520	0.00	0.00	0.00	0.01	0.01	0.00	0.00	WHERE IT A REAL PROPERTY ACTION	0.00	Concession of the state of the state	0.00	0.10		0.00
Crane	0,17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0,175	2.520	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03	0.09	0.16	0.02	0.02
Roller	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.04	0.11	0.19	0.02	0.02
Roller	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.12	0.18	0.00	0.00
Roller	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00		0.18	0.00	0.00
		2.01	0.00	,000		0.027	0.000	1.021	_1.000	0.115	2.001	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00		0.00	0.12	_0.18	0.00	0.00

Equipment	SCC ¹	Engine Technology	No.of Equipment,	Equipment Horsepower	100 C	Total	Year		Year 2		Year 3		Year 4		Year 5		Year		Year T	7
Type		Туре	#	hp	Туре	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours
V. Construction & Site S	upport			42.4000000000000		*****				X	2010 B. 1998			43 ×			e di cana ante		. Spinska organia	
Crane	2270002045	Τ3	2	160 Hp	Diesel	11,968	0%	0	5%	598	15%	1,795	20%	2,394	20%	2,394	20%	2,394	20%	2,394
Aerial Lift	2270003010	T3	3	74 Hp	Diesel	8,976	0%	0	5%	449	15%	1,346	20%	1,795	20%	1,795	20%	1,795	20%	1,795
Generator Set	2270006005	T2	1	600 Hp	Diesel	1,197	0%	0	5%	60	15%	180	25%	299	20%	239	20%	239	15%	180
Welder	2270006025			<50 Hp	Diesel			0		0		0		0		0		0		0
Air Compressor	2270006015			<50 Hp	Dieset			0	-	0		0		0		0		0		0
Portable Lighting				<50 Hp	Diesel			0		0		0		0		0		0		0
VI. Final Restoration	1.02038936505	Edminister (1995)				693.2 M		States -	11112536353635	CARSON.		Mather Style		XC ECTOR &	10.0000.0000	Marine	ar an	STREET	900.0000 (Ar. 1997)	
Crawler Tractors	2270002069	T3	3	410 Hp	Diesel	2,534	0%	0	0%	0	0%	0	0%	0	0%	0	20%	507	80%	2,028
Crawler Tractors	2270002069	T3	3	235 Hp	Diesel	2,534	0%	0	0%	0	0%	0	0%	0	0%	0	20%	507	80%	2,028
Excavator	2270002036	T3	1	148 Hp	Diesel	704	0%	0	0%	0	0%	0	0%	0	0%	0	20%	141	80%	563
Dumper/Tener	2270002078	T3	6	400 Hp	Diesel	4,224	0%	0	0%	0	0%	0	0%	0	0%	0	20%	845	80%	3,379
Grader	2270002048	T3	2	259 Hp	Diesel	1,690	0%	0	0%	0	0%	0	0%	0	0%	0	20%	338	80%	1,352
Surfacing	2270002024	T3	3	156 Hp	Diesel	2,534	0%	0	0%	0	0%	0	0%	0	0%	0	20%	507	80%	2,028
Forklift (rough)	2270002057	T3	2	115 Hp	Diesel	845	0%	0	0%	0	0%	0	0%	0	0%	0	20%	169	80%	676

NOTES:

Note 1: Equipment type and SCC code based on Appendix A of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

Note 2: Zero hour steady state emission factor (EFss; g/np-hr), and load factor are from NMIM/NONROAD08 model factors dated April 5, 2009.

Note 3: Median life is taken from Table 1 of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005. EFss from NMIM/NONROAD08 have transient adjustment factors built in.

Note 4: Age factor and Deterioration factors calculated using Equation 4 from "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009.

Age Factor = LF * cumulative hours / median life {where Age factor is capped at 1. For this calculation, age factor is assumed to be 1 for simplification purposes}. Deterioration Factor = 1 + (A * Age Factor*b), where b = 1 for desel engines and A is taken from Table A4 from source

Note 5: Adjusted Emission Factors for HC and NOx are calculated using Equation 1 from, "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009. Adjusted EF = Efss * TAF * DF (as stated in Note 2, EFss have TAFs built in)

Note 6: Annual VOC Emissions are calculated using the following calculation (1.053 * Adj. HC emission factor (g/hp-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/b)

1.053 is the ratio of VOC to HC from "Conversion Factors for Hydrocarbon Components", December 2005, EPA-420-P-05-015.

Annual NOx Emissions are calculated using the following calculation (Adj. NOx emission factor (g/hp-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/lb)

	Criteria F	ollutants	672484888	Median	0807668	0.200000		Deteri	oration	Adjus	ted EF	<u> </u>		1 22 - 51 - 52 - 52 - 52 - 52 - 52 - 52	i di	ail is ha	Err	lissions	(tons) 6	kaan 1999	2 2 3	e de la compañía de l	zi e de de la deservició d		Mar Nor
Equipment	EFss (a	/hp-hr) ²	Load	Life ³	Age	"A		fac	tor 4	(g/hr	>-hr)⁵	600000			HC	S. Alexandre	azi (18.	i e sa	Maria	(delenie)	100	NOx		ceso de la	
Type 1	HC	NOx	Factor ²	Hours	Factor ⁴	Se HC	₹NOx	S HC 💓	NOx 🗠	HC	NOx	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
V. Construction & Site S	a ta sul de		2008.0000	1000		100			John Mary	820 X								202 8 2	6 (És	States and the	1.2.38		19. 1999 - 198	S. Starter	
Crane	0.18	2,5	0.43	4667	> 1	0.027	0,008	1.027	1.008	0.185	2.520	_0.00	0.01	0.03	0.03	0.03	0.03	0.03	0.00	0.11	0.34	0.46	0,46	0.46	0.46
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.03	0.08	0.11	0.11	0.11	0.11
Generator Set	0.17	4.1	0.43	7000	> 1	0.034	0.009	1.034	1,009	0.176	4.137	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.07	0.21	0.35	0.28	0.28	0.21
Welder	0	0	0.21	0	>1	0	0	1.000	1.000	0.000	0.000														
Air Compressor	0	0	0.43	0	>1	0	0	1.000	1.000	0.000	0.000														
Portable Lighting	0	0	0	0	> 1	0	0	1.000	1.000	0.000	0.000														
VI. Final Restoration	会核調節的最終	hille state the second			AN DRA		1900-cara	NO. AND				- Addala		翻翻这个这个	1990		8610 (.). A		thill a		. (<i></i>		an Maria	1833-283	
Crawler Tractors	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.00	0.00	0.00	0.00	0.36	1.42
Crawler Tractors	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0,00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.20	0.82
Excavator	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.14
Dumper/Tener	0.38	3.03	0.21	7000	> 1	0.027	0.008	1.027	1.008	0.390	3.054	0,00	0,00	0,00	_0,00	0.00	0.03	0.12	0.00	0.00	0.00	0.00	0.00	0.24	0.96
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.15	0.60
Surfacing	0.19	2,61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.14	0.54
Forklift (rough)	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.13

4.6 4.6 2.4 2.2 1.0 0.4 0.6 65.9 66.5 37.4 33.4 15.9 5.9 7.3

NOTES:

Note 1: Equipment type and SCC code based on Appendix A of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

Note 2: Zero hour steady state emission factor (EFss; g/np-hr), and load factor are from NMIM/NONROAD08 model factors dated April 5, 2009.

Note 3: Median life is taken from Table 1 of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

EFss from NMIM/NONROAD08 have transient adjustment factors built in.

Note 4: Age factor and Deterioration factors calculated using Equation 4 from "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009.

Age Factor = LF * cumulative hours / median life {where Age factor is capped at 1. For this calculation, age factor is assumed to be 1 for simplification purposes}.

Deterioration Factor = 1 + (A * Age Factor*b), where b = 1 for desel engines and A is taken from Table A4 from source

Note 5: Adjusted Errission Factors for HC and NOx are calculated using Equation 1 from, "Exhaust and Crankcase Errission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009.

Adjusted EF = Efss * TAF * DF (as stated in Note 2, EFss have TAFs built in)

Note 6: Annual VOC Emissions are calculated using the following calculation (1.053 * Adj, HC emission factor (g/hp-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/lb)

1.053 is the ratio of VOC to HC from "Conversion Factors for Hydrocarbon Components", December 2005, EPA-420-P-05-015.

Annual NOx Emissions are calculated using the following calculation (Adj. NOx emission factor (g/np-hr)*horsepower *hours operated * load factor) / (2000 lb/ton * 453.6 g/tb)

Equipment 2	scc1	Engine Technology Type	No.of Equipment	Equipment Horsepower	Fuel Type	Total Operating	% of Tot. Hrs Safety	Total Safety Related Hrs	Year 1		Year	2	Year	3	Year	4	Year 5		Year 6		Year 7	7
Туре		i Abe	#	hp	Siype -	Hrs	Related		Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours
IA, Early Site Prepatrati	on		14.	1. 1-4 B 22	No get in the	2.2		12.5.5.4.16%		11 1 1			10000 6440.000	ANX8298		1201		1212	Constant States	20KX-2X3	sele a recipient	146.00
Crawler Tractors	2270002069	T3	4	700 Hp	Diesel	3,300	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	T3	3	263 Hp	Diesel	2,475	0%	0	0%	0	0%	0	0%	0	0%	D	0%	0	0%	0	0%	0
Excavator	2270002036	T3	3	148 Hp	Diesel	1,980	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Excavator	2270002036	T3	1	380 Hp	Diesel	660	0%	0	0%	0	0%	0	0%	0	0%	0	0%	Ð	0%	0	0%	0
Crane	2270002045	T3	2	160 Hp	Diesel	880	0%	0	0%	0	0%	0	0%	0	0%	0	0%	D	0%	0	0%	0
Dumper/Tener	2270002078	T3	10	450 Hp	Diesel	5,500	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	T3	2	259 Hp	Diesel	990	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper	2270002018	T3	8	462 Hp	Diesel	5,280	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper	2270002018	T3	3	462 Hp	Diesel	1,980	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	Τ3	1	156 Hp	Diesel	660	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
IA. Site Development ar	nd Excavation				÷									24.8	1.5	1		1.00		(Alexandre)		
Intake area, Switchy	ard, NE & WI	aydown areas	s	$(A_{i}^{*} \Delta_{i}^{*}) = M_{i}^{*} (A_{i}^{*} \Delta_{i}^{*})$	22.1			4 .S	r e altre				2:5	- 52 · · ·		1	· · · · ·	1. 1975	CONTRACTOR AND	28.5.3	a second second	
Crawler Tractors	2270002069	T3	7	700 Hp	Diesel	4,200	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 1/2)		T3	6	500 Hp	Diesel	2,400	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 2/2)		T3	6	462 Hp	Diesel	2,400	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Excavator	2270002036	T3	1	148 Hp	Diesel	480	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	T3	6	263 Hp	Diesel	3,360	0%	0	0%	0	0%	0	0%	0	0%	0	0%	Ð	0%	0	0%	0
Grader	2270002048	Τ3	1	259 Hp	Diesel	400	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Powerblock (inc. co	oling towers a	NC laydown)	1. S. C.	State State		des ar e dave	1 40	2728 8						(198 8)//	121-332 (2017)	1. S			22233 8 8	¥ 1	Lin and the	· 27, 2020,
Crawler Tractors	2270002069	Τ3	4	700 Hp	Diesel	6,240	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Crawler Tractors	2270002069	⊤3	1	410 Hp	Diesel	1,560	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	T3	2	263 Hp	Diesel	3,120	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 1/2)	2270002018	T3	15	500 Hp	Diesel	19,500	0%	0	0%	0	0%	0	0%	0	0%	0	0%	D	0%	0	0%	0
Scraper (dual engine 2/2)	2270002018	T3	15	462 Hp	Diesel	19,500	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	T3	2	156 Hp	Diesel	2,340	10%	234	20%	47	40%	94	40%	94	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	Τ3	2	400 Hp	Diesel	2,340	10%	234	20%	47	40%	94	40%	94	0%	0	0%	0	0%	0	0%	0
Excavator	2270002036	⊺3	2	148 Hp	Diesel	3,120	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	.T3	6	263 Hp	Diesel	10,920	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	T3	2	259 Hp	Diesel	2,600	0%	0	0%	0	0%	0	0%	0	0%	0	0%	D	0%	0	0%	0
Excavator	2270002036	Т3	5	428 Hp	Diesel	7,800	0%	0	0%	0	0%	0	0%	0	0%	0	0%	D	0%	0	0%	0
Off-Highway Truck	2270002051	T3	30	650 Hp	Diesel	35,100	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Off-Highway Truck	2270002051	T2	1	462 Hp	Diesel	1,300	0%	0	0%	0	0%	0	0%	0	0%	0	0%	D	0%	0	0%	0
Rubber tire loader	2270002060	Т3	2	262 Hp	Diesel	704	80%	563	0%	0	75%	422	25%	141	0%	0	0%	D	0%	0	0%	0
Parking				1. 1. 1. 1. 1. A. 1. 1	1			- 1 C . 12					1. A.	1		1			N. A. & & ? A.	States.	1	
Crawler Tractors	2270002069	T3	2	235 Hp	Diesel	1,500	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Scraper	2270002018	T3	1	462 Hp	Dieset	500	0%	0	, ,,,,,	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	T3	2	156 Hp	Diesel	900	0%	0		0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	T3	2	400 Hp	Diese	900	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Excavator	2270002036	T3	1	148 Hp	Diesel	600	0%	0	1 0/0	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe		T3	1	263 Hp	_Diesel	700	0%	0		0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	T3	1	259 Hp	Diesel	500	0%	Ö	0,0	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	T3	1	174 Hp	Diesel	500	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	T3	1	107 Hp	Diesel	500	0%	0	0,0	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
> Support Road (inc.)		Plant; Central	laydown) 🖄		教教会 》	ANT WAR	S. 32 E		Sec. Sec. March	and 8	C. S. W. S. Str.					1. 2010	1 A	1		\$2. W.S.	A SA GARA	7.18
Crawler Tractors	2270002069	Т3	4	235 Hp	Diesel	9,000	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 1/2)		T3	3	500 Hp	Diesel	4,500	0%	0	0%	C	0%	0	5%	0	0%	0	0%	0	0%	0	0%	0
Scraper (dual engine 2/2)		Т3	3	462 Hp	Diesel	4,500	0%	0	0%	0	0%	0	5%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	Т3	1	156 Hp	Diesel	1,350	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	T3	2	400 Hp	Diesel	2,700	0%	0	0%	0	0%	0	20%	0	0%	0	0%	Ö	0%	0	0%	Û
	2270002036	Т3	2	148 Hp	Diesel	3,600	0%	0	0%	٥	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	Т3	2	263 Hp	Diesel	4,200	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	T3	2	259 Hp	Diesel	1,600	0%	0	0%	0	0%	0	_20%	0	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	T3	1	174 Hp	Diesel	500	0%	0	0%	0	0%	0	40%	0	0%	0	0%	0	0%	0	0%	0
Paving Equipment	2270002021	Т3	1	107 Hp	Diesel	500	0%	0	0%	0	0%	0	40%	0	0%	0	0%	0	0%	0	0%	0
Off-Highway Truck	2270002051	T2	1	462 Hp	Diesel	1,200	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0

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	Criteria	Pollutants		Median				Deteri	oration	Δ	ted EF						Fr	lissions	(tons) 6	Marker and					
Equipment	යැන(<u>ଜ୍ଞ</u> ି ଜୁନ୍ତ	ഥ്രം	ATD		δą	Contain Arre		េញច	500G						L. II.		(ucuic)			Nox			and an address of the second
TXTC9 ¹			100 M	Goog -		He	-	118	Nox				Year 2	Year8		Year5	1000000	(V)~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	[V2()]				Years	YearG	Vear77
	<u></u>	NO3	Factor ²	nouis	Factor		T THOM	Lub S	NUX	66	Nox	Yearti	- nearra	vearo	Jean4	reans	UGEIRO	Usar <i>u</i>	Tearai	near(2)	ucaro	(ear/e)	teano	Jearo	uear <i>u</i>
IA Early Site Prepatrati Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0,17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0,185	2.520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dumper/Tener	0.38	3.03	0.21	7000	>1	0.027	0.008	1.027	1.008	0.390	3.054	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper Scraper	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IA Site Development an	DEMONSTRA																		**** *						
Intake area Switchy			Constant in a set	102722401005											North March				17. T. I.						
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2)	0,17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 2/2)	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667 4667	>1	0.027	0.008	1.027	1.008	0.195	2.631 3.054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe Grader	0.42	2.61	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Powerblock (inc. co	0.15	2.01	0.59	4007	Shinese Street	0.027	0.000	1.027	1.000	0.155	2.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00			3.00	3.00
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2)	0.17	2,61	0,59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 2/2)	0,17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0,19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00
Surfacing	0.17	2.61	0.59		> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.06	0.00	0.00	0.00	0.00
Excavator Tractor/Loader/Backhoe	0.19	3.03	0.39	4667	>1	0.027	0.008	1.027	1.008	0.193	3.054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0,195	2,631	0,00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0,17	2.61	0.59	7000	> 1	0.027	0.008	1,027	1.008	0,175	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Highway Truck	0.17	2.61	0.59	7000	>1	0.027	0.008	1,027	1,008	0.175	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Highway Truck	0.17	4.11	0.59	7000	> 1	0.034	0.009	1.034	1.009_	0.176	4.147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber tire loader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.06	0.00	0.00	0.00	0.00
Rarking	0.10	0.61	0.59	4667		0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractors Scraper	0.19	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0,19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00
Surfacing	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Equipment	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Equipment	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractors	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 1/2)	0.13	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scraper (dual engine 2/2)	0,17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0,195	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0,17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Equipment	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Equipment Off-Highway Truck	0.19	2.61	0.59	4667 7000	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca-righway fruck	0.17	1 4.11	0.59	7000		0.034	0.009	1.034	1.009	0.170	4,147	1 0.00	0.00	0,00	1 0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00

		Engine 🛒	No.of	Equipment		Total	% of Tot.	7.1.10.44	Year 1	2.28	Year	39 %	Year 3		Year 4	28. j.	Year 5		Year 6	638 4	Year 7	
Equipment Type 1	SCC1	Technology Type	Equipment	Horsepower	Fuel Type	Operating Hrs	Hrs Safety	Total Safety Related Hrs	10-2.09						*XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			(53))	an a			
			#	hp× 👘	See a	Seriis .	Related		Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation,%	Hours
South Laydown	20000000000	S.S	States service	i (de de cectorio) alte	40.00C	Maria Maria da B				*****		100000	STATISTICS	100000		7020300	100.00-300-300	100102030		\$12.2500F	500.000 K. (4500	
Crawler Tractors	2270002069	Т3	4	700 Hp	Diesel	2,400	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Surfacing	2270002024	T3	1	400 Hp	Diesel	360	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Excavator	2270002036	T3	3	148 Hp	Diesel	1,440	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Grader	2270002048	T3	1	259 Hp	Diesel	400	0%	0	0%	0	0%	0	20%	0	0%	0	0%	0	0%	0	0%	0
Boring/Soils investi		NAME AND A DESCRIPTION OF A				the state	和秘密建筑	and the second second	of contactions 100					Second and		STOLES:	NACIONAL DE LA COMPANY		department.	LUNSONS	000	2000 ANA ANA ANA ANA ANA ANA ANA ANA ANA
Bore/Drill Rig	2270002033	T2	1	420 Hp	Diesel	246		0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Minderground utilitie				8 0000000.00000000000000000000000000000		Martin Contractor	0202452858		0%	0	F.00/	282	Siddle	282	0%	D D	0%	0	0%	0	0%	0
Crane	2270002045	<u>T3</u>	2	160 Hp	Diesel	1,126	50%	563 845	0%	0	50% 50%	422	50% 50%	422	0%	0	0%	0	0%	0	0%	- č
Crawler Tractors	2270002069	<u>T3</u>	2	235 Hp	Diesel	1,690	50% 50%	2.534	0%	0	40%	1.014	30%	760	30%	760	0%	0	0%	0	0%	- o
Tractor/Loader/Backhoe	2270002066	T3	6	102 Hp 148 Hp	Diesel Diesel	1,690	50%	2,534	0%	0	60%	507	40%	338	0%	0	0%	0	0%	0	0%	õ
Excavator	2270002036	T3 T3	1 1	400 Hp	Diesel	845	50%	422	0%	0	50%	211	40%	169	10%	42	0%	0	0%	0	0%	0
Dumper/Tener		<u> </u>		400 np	Cicsel X	043	3078 2002	422	078		3076	1985		10000000000	1070	- 14 I I I I I I I I I I I I I I I I I I			1	-		ALCONT.
Forklift	2270003020	T3	2	94 Hp	Diesel	8.378	50%	4,189	0%	0	10%	419	20%	838	30%	1,257	25%	1,047	10%	419	5%	209
Crane	2270003020	T3	2	160 Hp	Diesel	9,574	50%	4,787	0%	0	10%	479	20%	957	30%	1,436	25%	1,197	10%	479	5%	239
Forklift (rough)	2270002057	T3	1	115 Hp	Diesel	5,386	50%	2,693	0%	0	10%	269	20%	539	30%	808	25%	673	10%	269	5%	135
IIA: Civil / Concrete Stru						2000 (200000000000	SHORE AND AND	8.7.36.7 Avera 36.45	******		1538533		2000 99415	(18.000.00021.000	6 2 .29,80	1996 (1996) (19	1455.600	COLUMN STAR	51/182628		93.C.33
Bridge Construction		CAN THE STATE				1940 (C.199	100 100 100 100	Carlos and the second	1010 No. 1010 NSC	200000000	2000/2019 (St	2566238		\$805.69			Section alor			29972×49.8		PSP Stores
Crawler Tractors	2270002069	T3	3	700 Hp	Diesel	3,600	0%	Ö	0%	0	20%	0	30%	0	30%	0	20%	0	0%	0	0%	0
Crawler Tractors	2270002069	Т3	2	305 Hp	Diesel	2,400	0%	0	0%	0	20%	0		0	30%	0	20%	0	0%	0	0%	0
Surfacing	2270002024	Т3	2	400 Hp	Diesel	2,160	0%	0	0%	0	20%	0	30%	0	30%	0	20%	D	0%	0	0%	0
Excavator	2270002036	Т3	4	148 Hp	Diesel	4,800	0%	0	0%	0	20%	0	30%	0	30%	0	10%	0	10%	0	0%	0
Grader	2270002048	Τ3	1	259 Hp	Diesel	960	0%	0	0%	0	20%	0	30%	0	30%	0	20%	0	0%	0	0%	0
Tractor/Loader/Backhoe	2270002066	Т3	3	80 Hp	Diesel	3,802	0%	0	0%	0	20%	0	30%	0	30%	0	10%	0	10%	0	0%	0
Crane	2270002045	T3	4	160 Hp	Diesel	4,224	0%	0	0%	0	20%	0	30%	0	30%	0	10%	0	10%	0	0%	0
Crane	2270002045	T2	2	355 Hp	Diesel	2,112	0%	0	0%	0	20%	0	30%	0	30%	0	20%	0	0%	0	0%	0
Pump	2270006010	T3	1	300 Hp	Diesel	528	0%	0	0%	0	10%	0	30%	0	30%	0	20%	0	10% 10%	0	0%	0
Forklift (rough)	2270002057	T3	2	115 Hp	Diesel	1,901	0%	0	0%	0	10%	0	30% 30%	0	30%	0	20%	0	10%	0	0%	0
Rubber tire loader	2270002060	Т3		262 Hp	Diesel	1,056	0%		0%		10%	0	30%	C Parte S	30%	0	2076	0	1078	aniguaunin	0%	10000.00
Sheet Piling	2270002045	TO	1	205 Hp	Diesel	352	0%	0	0%	0	50%	0	50%	0	0%	0	0%	0	0%	0	0%	0
Crane	2270002045	T3 T3	2	160 Hp	Diesel	493	0%	0	0%	0	50%	ő	50%	0	0%	- 0	0%	<u> </u>	0%	0	0%	0
Crane Structural Concrete	2270002045	13 2000. 27 géréfé			Diesei	493	0.0	Santos meterores i	078		30%			aldel Science	070	C. Martine	2002/2004			100000000	10 A	1000000
-	2270006010	T3	5	300 Hp	Diesel	7,500	50%	3,750	0%	0	10%	375	30%	1,125	30%	1,125	20%	750	5%	188	5%	188
Pump Crane	2270002045	T2	5	355 Hp	Diesel	7,920	50%	3,960	0%	0	10%	396	30%	1,188	30%	1,188	20%	792	5%	198	5%	198
Crane	2270002045	T3	5	160 Hp	Diesel	9,504	50%	4,752	0%	0	10%	475	30%	1,426	30%	1,426	20%	950	5%	238	5%	238
Forklift (rough)	2270002057	T3	6	115 Hp	Diesel	17,107	50%	8,554	0%	0	10%	855	30%	2,566	30%	2,566	20%	1,711	5%	428	5%	428
Rubber tire loader	2270002060	T3	2	262 Hp	Diesel	6,336	50%	3,168	0%	0	10%	317	30%	950	30%	950	20%	634	5%	158	5%	158
Tractor/Loader/Backhoe	2270002066	тз	4	80 Hp	Diesel	12,672	50%	6,336	0%	0	10%	634	30%	1,901	30%	1,901	20%	1,267	5%	317	5%	317
Non-Power Block (C			ooling Tower		S.68833890	all and all all all all all all all all all al	0.12000358	Carlo Martinetta (and the states		Second Second	Xerey	S. 4. 86	8 (\$e~.28	20021929		2012/07/07/09/02	10000000				
Crane	2270002045	T3	2	160 Hp	Diesel	8,490	0%	0	0%	0	0%	0	70%	0	30%	0	0%	0	0%	0	0%	0
Pump	2270006010	T3	3	300 Hp	Diesel	1,901	0%	0	0%	0	0%	0	70%	0	30%	0	0%	0	0%	0	0%	0
Crane	2270002045	T2	2	355 Hp	Diesel	6,336	0%	0	0%	0	0%	0	70%	0	30%	0	0%	0	0%	0	0%	0
Forklift (rough)	2270002057	T3	1	115 Hp	Diesel	1,901	0%	0	0%	0	0%	0	70%	0	30%	0	0%	0	0%	0	0%	0
Switchyard		al management	THE REAL OF	8			815/ <i>12/80/20</i> 8	hill also		141381328	Careford and the second second	an a	4.2594244038	10.199.200		8928.c.i	ille se in the second	2002	2.	1440100	2010 0000000000000000000000000000000000	Sittler Co.
Crane	2270002045	T3	2	160 Hp	Diesel	3,168	25%	792	0%	0	0%	0	50%	396	40%	317	10%	79	0%	0	0%	0
Pump	2270006010	T3	3	300 Hp	Diesel	950	25%	238	0%	0	0%	0	75%	178	25%	59	0%	0	0%	0	0%	0
Crane	2270002045	T2	1	355 Hp	Diesel	792	25%	198	0%	0	0%	0	75%	149	25%	50	0%	0	0%	0	0%	0
Forklift (rough)	2270002057	T3	1	115 Hp	Diesel	1,426	25%	356	0%	0	0%	0	75%	267	25%	89	0%	0	0%	0	0%	0
Cooling Tower	2270002037	with sectors with the	STOCK STOCK	i ne spitte nini			16.05.0983588	Manager Street Street	Section and the sector		CONTRACTOR OF	100.2000	UCC - Incomposition -	\$1900	10010000000000		CONTRACTOR OF CONTRACT	1000		10000000	Saute Carles	STREET, STREET, ST
Crane	2270002045	T3	4	160 Hp	Diesel	8,490	10%	849	0%	0	0%	0	0%	0	30%	255	70%	594	0%	0	0%	0
Crane	2270002045	T2	2	355 Hp	Diesel	1,584	10%	158	0%	0	0%	0	0%	0	30%	48	70%	111	0%	0	0%	0
Pump	2270002045	T3	3	300 Hp	Diesel	1,901	10%	190	0%	ů 0	0%	ō	0%	0	30%	57	70%	133	0%	0	0%	0
Forklift (rough)	2270008010			115 Hp	Diesel	2,851	10%	285	0%	0	0%	0	0%	0	30%	86	70%	200	0%	0	0%	0
r orkint (rough)	2210002037	1.0	<u> </u>	ј попр	Diesel	2,031	10/0	200	0 /0	L V	1 070	<u> </u>	···· ··· ··· ···	L Š		···· · · · · · ·					- //	للمتحصد

alfa - sidafarta a antorna (adiki)	Critoria	Pollutants	cash Cashiel Mar	Median		19000000	òrigintere:	Dotori	oration	Adiue	ted EF	- Addick and a state	2 () X				(MAR)	nissions	(tone) 6		- 14 M	19 20 A	a.e. taid	Maria Maria	200000
Equipment	S.7.00		一方方 時	Second Co	Se desta		a.4	fact		(a/hp	S.K.H.M. L. S. M. L. S.	Alamathon, cardeline	and the day of the stand		HC	n ang sa		UCKNIGHTS	000384		Manufacture of Sector	NOx	AND CONCERNING AND		0000000
Type ¹		/hp-hr)	Load	Life	Age	1000000000000	X SCORDUNING SC	STREES BUILDE	1000	A 10 10 1.	Staro, All Starts	granac so scoopso	× 20.8		active and the second	Sec. Some			Contraction of	2.A.		Transferration and the second second	OTTO DEPENDENT		1888888999
	HC	NOX	Factor 2	∦Hours∦	Factor 1	НС	NOx	HC	NOx	HC	NOx	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
🕬 South Laydown 🗰				2532533333	a de de la composición de la c	00000	30.808.08	Storage and	i kto hain		1		MARKARA	ALC: NO			30 M 988	的和何為能	*****				816: C. A. A.	10000	
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Excavator	0.19	2.61 2.61	0.59	4667 4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader Boring/Soils investi	0.19	2.01	0.59	4007	-	0.027	0.000	1.021	1.000	0.195	2.001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bore/Drill Rig	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Underground utilitie		CONSTRUCTO	62802012-00000	1000000	10000000000	S. Alternation	Bellevic	1111111111111	A	(Mail Mail)	10.000	100000000	AN	2006-00080	3654030XX		1911120,444	-		1999 - Maria	in an	an that the	dia anti-		CREEK AS GRA
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0,00	0.00	0.00	0,00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00
Crawler Tractors	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.03	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.054	0.00	0.01	0.01	0,01	0.00	0.00	0.00	0.00	0.07	0.05_	0.05	0.00	0.00	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.13	0.09	0.00	0.00	0.00	0.00
Dumper/Tener	0.38	3.03	0.21	7000	> 1	0.027	0.008	1.027	1.008	0.390	3.054	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.05	0.01	0.00	0.00	0.00
Warehouse & Storag	0.40	2.42	0.50	4667		0.027	0.000	1 007	1,008	0.105	3.155	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.08	0.16	0.24	0.20	0.08	0.04
Forklift Crane	0.19	3.13 2.5	0,59	4667 4667	>1	0.027	0.008	1.027	1.008	0.195	2.520	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.08	0.18	0.24	0.20	0.08	0.04
Crane Forklift (rough)	0.18	2.5	0.59	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.05	0.10	0.16	0.13	0.05	0.03
IIA. Civil / Concrete Stru	0.13	2.01	3200 (2003)		1000000	0.027	0.000	Special States		0.100		0.00	4041000	1010	0.01	12.29	100	ALCONOM:		Shielder	in MARIE	10000000	2200428	10800508	
Bridge Construction	40.000	Section 201	28:02:25:45:77	1000 - 100 -	10000-0000	100 and 100	\$*\$\$\$ \$ \$	marian	0.02200000	ang tit kata	and the weather the	1000000000	\$295383832	28,000,000	and the second second	9923893886	e	Kalingaa	*****	\$260.600	200.462	68 2222		10000000	20222600
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0,027	0,008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1,008	0,175	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Surfacing	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0,175	2,631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_0,00_	0.00
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027_	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane Crane	0.18	2.5 4.34	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	4.379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pump	0.17	4.34	0.43	4667	>1	0.034	0.009	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber tire loader	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sheet Piling	1.20200222	L. Margarian	100003280805255					建心光效率度	ALCONTACTOR		Ø. se den here	(X+5.20185			100 (d.)	States and				新学校 200	11118.0000	Reef Sta		
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Structural Concrete			5.00.00 March 100	- 20 - 49 S						0.000.000							200 C			0.00		2.660	0.00	0.00	200000000
Pump	0	0	0,43	4667	>1	0.027	0.008	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.17	4.34	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.01	0.04	0.04	0.02	0.00	0.01	0.00	0.29	0.88	0.66	0.38	0.15	0.15
Crane Forklift (rough)	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.01	0.02	0.02	0.01	0.00	0.00	0.00	0.09	0.50	0.27	0.18	0.05	0.03
Rubber tire loader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.01	0.03	0.03	0.02	0.01	0.01	0.00	0.14	0.43	0.43	0.28	0.07	0.07
Tractor/Loader/Backhoe	0.42	3.64	0.21	4667	> 1	0,027	0.008	1.027	1.008	0.431	3.669	0.00	0.01	0.02	0.02	0.01	0.00	0,00	0.00	0.04	0.13	0.13	0.09	0.02	0.02
Non-Power Block (C			AMINIMIST.	10000000			10000000	a services	a novedecico		STANDARD (*)	DANI CH	2 000/1640				11113371)s					29% in 1999	GAMENT.		1000000000
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pump	0	0	0.43	4667	> 1	0.027	0.008	1,027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.00	0.00	0.00	0,00	0,00	0,00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift (rough)	0.19	2,61	0.59	4667	> 1	0,027	0,008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Switchyard			are the second						* ****								ia arigi								
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.06	0.02	0.00	0.00
Pump	0	0	0.43	4667	>1	0.027	0.008	1.027	1.008	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crane	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.00	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.00	0.00	0.00
Cooling Tower	0.40		0.42	4667		0.027	0.008	1 007	1.009	0.195	2.520	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.00	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.00	0.00
Crane	0.17	4.34	0.43	7000	>1	0.034	0.009	1.034	1.009	0.000	4.379	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.00
Pump	0.19	-	0.43	4667	>1	0.027	0.008	1.027	1.008	0.000	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4007		0.027	0.000	1.027	1.008	0.190	2.001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.00

Number Numb Numb Numb	Year7		Year@		Year 5	1	Year		Year	2	Year		Year	Total Safety	% of Tot. Hrs	Total	Fuel	Equipment	No.of	Engine Technology		Equipment
Dis Superinsettive Alt-Instantion Superinsetti Alt-InstantinstestiAlt-Instantion SuperinsettiAlt-In	Operation % Hour	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Related Hrs		Operating (Hrs)		Horsepower hp	Equipment #		SCC ¹	Type ¹
Sector Sector<	AND DESCRIPTION OF THE OWNER	0000 GB	STORAGE REALINER	100006/01202	WINGS CONTRACTOR	1000 2000	all the second second	00333/876	in the book of the local	685-697.00		302205000	102010000000000000000000000000000000000	MARK CONTRACTOR	-	NEX CONTRACTOR	S MARGINARY	Shitten Barris	The second se		tructualiSteel	IIB Superstructure 181
Carace 222000040 TZ 5 355 Hp Desc 5.200 49% 0.10 0.07% 0.0 2420 75% 1.347 65% 44 0.1% 0.0 0.0% 0.0 0.0% 0.0 2420 1.347 65% 44 0.1% 0.0 0.0% 0.0 0.0% 0.0 2000 1.347 65% 44 0.0% 0.0 0.0% 0.0 2000 1.347 65% 44 0.0% 0.0 0.0% 0.0 2000 1.347 65%		And the second second	Burness Seconder	900705-0028	253602242962	and the second s	Siddle-de-sideledesse	Stand and	ALC: NOT RECEIPTION OF		Transference Stationer	1000000000	Sector Managements	STRATES LISTS	STORT CONTRACTOR	Designment of the second se		Second and an and a second second second				
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Crane 2270002045 T2 5 355 Hp Diesel 5,280 50% 2,640 0% 0 15% 396 40% 1,056 20% 528 15% 396 Crane 2270002045 T3 2 400 Hp Diesel 2,112 50% 1,056 0% 0 0% 0 15% 158 40% 1,056 20% 211 15% 159 Crane 2270002045 T3 1 500 Hp Diesel 1,056 50% 528 0% 0 0% 0 15% 15 40% 422 20% 211 15% 16 50% 528 0% 0 0% 0 15% 396 40% 1.056 20% 528 15% 396 6 6 6 6 6 0% 0 0% 0 15% 396 40% 1.056 20% 528 15% 396 6 6 6 6 6 6 6 6 6 6 6 6 6	10% 158	238	15%	317	20%	634	40%	238		0	0%	0							3	. =		
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Crane 2270002045 T3 1 500 Hp Diesel 1,056 50% 528 0% 0 0% 0 15% 79 40% 211 20% 106 15% 78 Aerial Lift 2270003010 T3 5 65 Hp Diesel 5,280 50% 2,640 0% 0 15% 396 40% 1.056 20% 528 15% 396 Aerial Lift 2270003010 T3 5 74 Hp Diesel 5,280 50% 2,640 0% 0 15% 396 40% 1.056 20% 528 15% 396 Crane 2270002045 T3 1 355 Hp Diesel 5,95% 2,957 0% 0 0% 0 15% 36 40% 1.056 20% 54 15% 396 Crane 2270002045 T3 1 355 Hp Diesel 5,914 50% 2,957 0% 0 0% 0 15% 63 40% 1.18 20% 59i 15%	10% 106	158		211		422				0		0							2			
Aerial Lift 2270003010 T3 5 65 Hp Diesel 5,280 50% 2,640 0% 0 15% 396 40% 1,056 20% 528 15% 396 Aerial Lift 2270003010 T3 5 74 Hp Diesel 5,280 50% 2,640 0% 0 15% 396 40% 1,056 20% 528 15% 396 Crane 2270002045 T3 1 355 Hp Diesel 5,90% 422 0% 0 0% 0 15% 63 40% 1,056 20% 54 15% 396 Crane 2270002045 T3 1 355 Hp Diesel 5,914 50% 422 0% 0 0% 0 15% 63 40% 1,183 20% 84 15% 63 V3Major, Equipment (heavy): lift and inoverments 8 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	10% 53	79		106		211		79		0		0										
Aerial Lift 2270003010 T3 5 74 Hp Diesel 5,280 50% 2,640 0% 0 15% 396 40% 1,056 20% 528 15% 396 Crane 2270002045 T3 1 355 Hp Diesel 845 50% 422 0% 0 0% 0 15% 63 40% 169 20% 84 15% 63 Forklift (rough) 2270002057 T3 2 115 Hp Diesel 5.941 50% 2.957 0% 0 0% 0 15% 63 40% 169 20% 54 434 V3Major; Equipment (heavy)/lift/and movementes 8	10% 264	396	15%	528		1,056		396		0		0							5			
Crane 2270002045 T3 1 355 Hp Diesel 845 50% 422 0% 0 0% 63 40% 169 20% 84 15% 63 Forklift (rough) 2270002057 T3 2 115 Hp Diesel 5,914 50% 2,957 0% 0 0% 0 15% 444 40% 1,183 20% 591 15% 444 V/5/Major/Equipment (heavy)!Iffrand movements 444 40% 444<	10% 264	396	15%	528	20%	1,056	40%	396	15%	0		0					Diesel		5			
Forklift (rough) 2270002057 T3 2 115 Hp Diesel 5,914 50% 2,957 0% 0 0% 0 15% 444 40% 1,183 20% 591 15% 444 V/5/Major/Equipment (heavy)!Iffrand movements: Image: Second and the	10% 42	63	15%	84	20%	169	40%	63	15%	0	0%	0	0%		50%		Diesel	355 Hp	1	Т3		
	10% 296	444	15%	591	20%	1,183	40%	444	15%	0	0%	0	0%		50%	5,914	Diesel		2	A.A		
	AND DESCRIPTION OF THE PARTY	2.4.	WELL SHERE AND	2018), M	ALL PROPERTY.	10000	Second States	112200 and	100000000000	-	Sector States and and a	***	CONCEPTION.	140 C	N		Sector and		Server and the server server	movement		
	5% 20	20	5%	198	50%	119	30%	40	10%	0	0%	0	0%	396	75%	528	Diesel	500 Hp	_			
Crane 2270002045 T3 1 600 Hp Diesel 528 75% 396 0% 0 0% 0 10% 40 30% 119 50% 198 5% 20	5% 20	20	5%	198	50%	119	30%	40		0		0					-					
Roller 2270002015 T3 2 600 Hp Diesel 300 75% 225 0% 0 0% 0 0% 0 40% 90 60% 135 0% 0	0% 0	0		135						_									2			
Roller 2270002015 T3 1 600 Hp Diesel 300 75% 225 0% 0 0% 0 0% 0 40% 90 60% 135 0% 0	0% 0	0		135				0		-												
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788 200 BB 100	Criteria	Pollutants	SON SOLID	Median		027		Deteri	oration	Adjus	ted EF		í.		A.C. M	1. (* 192	En	nissions	(tons)	6 H 2 H			T âle		
Equipment	EFss	a/hp-hr) ⁽²⁾	Load	Life ³	Age	A"	φð	fac	tor	(g/hp	-hr) ⁵	688 A.			HCK			CON NO.				NOx			
Type ¹	HC	NOX	Factor ²	Hours	Factor	WHC .	NOx	HC	NOX	HC	NOx	Year 1	Year 2	Year 3	Year 4	Year 5	Year,6	Year,7	Year 1	Year 2	Year 3	Year 4	Year 5	Year/6	Year 7
IIB. Superstructure & S	SPORTS OF THE		ALL SACIONALS	of the second second		dissection.			BANK SHOW			STATISTICS.	Sector Sector	0.00		The Case of the P	-	STREET, ST			10000000	TROOMS	SEMANONS:	SCHOOL ST	Sharman a
Structural & Buildin	een in tot	Metrick &		STANSING P		STREET, ST	STREET, STREET, ST		NO REAL	AN ATAKIN		8631233 83	(1)(2)(3)(3)(4)	6.00 M	12:56.000		(RESIDENCE)	000.000	and the second s						STREEMS
Crane	0.17	4.34	0.43	7000	> 1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.31	1.17	0.08	0.00	0.00
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.16	0.61	0.04	0.00	0.00
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.15	0.57	0.04	0.00	0.00
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.15	0.55	0.04	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.17	0.01	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.01	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.16	0.60	0.04	0.00	0.00
Building Modules &			100.207.0617536	A.S. MARCE	Sec.		30032031	MARKONAN		80.54000594	Martineses	Constants.		<u> </u>		1.300		(2987) (8	STATES I						
Crane	0.17	2.5	0.43	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.01	0.01	0.00	0,00	0.00	0,00	0.00	0,12	0.12_	_0.00_	0,00_
Crane	0.17	4.1	0.43	7000	> 1	0.027	0.008	1.027	1.008	0.175	4.133	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.00
Building Siding / Ins							(199 2 (199			******			AND 1997	100000	0,000,000,0	10.000	8681 B	STARKS STAR	23.963						10.
Crane	0.18	2.5	0.43	4667	> 1	0.027	0,008	1,027	1,008	0,185	2,520	0.00	0,00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0,04	0.00	0,00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00
Roofing			81	HE AL	an a	decoració	<i>10</i> 37 88 89	HE FORE				900-5725		8. A.M. 19	C. 36, 6253	1. N. S.C.	10-9/2-800		diameters)	1944 Sec. 5	20 C 200	CALCORE	26.23		
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2,520	0.00	0.00	0,00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
IIIA: Nechanical Installa				14	C. Sections	(4.82 <u>8</u> 456)	AN CONTRACTOR	the accession	Lies and the		an a	ARCHINES .	per la mar	N. 222 (r)		an a Solara	Segarate 19	-20% Se			Sec.		Marine Sec.		
Mechanical Installat	17 A 19 1	1988	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	AND MAKE		1000 (dat	and the	AN COL	Constant State	CHEWE A 160	Carlos Maria	19. 4 4 10	****	200.00			Co		3803933	369/86/78	2000	1698 9 88	80.10000	<u> 1988</u>	
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1,008	0.185	2,520	0.00	0.00	0.02	0.05	0.02	0.01	0.00	0.00	0,00	0.28	0.71	0.28	0.14	0.00
Crane	0.18	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.13	0.05	0.03	0.00
Crane	0.17	4.34	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.379	0.00	0.00	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.31	0.78	0.31	0.16	0.00
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.08	0.20	0.08	0.04	0.00
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.13	0.05	0.03	0.00
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.03	0.01	0.00
Aerial Lift	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1,008	0.431	3.669	0.00	0.00	0,00	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0,03	0.02	0.00
Forklift (rough)	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.17	0.23	0.09	0.09	0.00
IIIB. Electrical Installation	10. The second				(100 C)						S. 4 357	1999° (K	2. R. C.		Contraction of the second		1		2 Service		Street Be			1000 C	10000000
Electrical Installatio	0.40	25	2 eta	4007	And Statistics of the	0.007	0.000	4.007	4.000	0.405	0.500	50 mm		0.00	0.04	0.01	0.00	0.00	0.00	0.00			0.00		
Crane	0.18	2.5	0.43	4667 4667	>1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.06	0.17	0.08	0.06	0.04
Crane	0.18	4.34	0.43	7000	>1	0.027	0.008	1.027	1.008	0.185	4.379	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.13	0.07	0.05	0.03
Crane Crane	0.17	2.5	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	2.520	0.00	0.00	0.01	0.03	0.02	0.01	0.01	0.00	0.00	0.29	0.78	0.39	0.29	0.19
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.08	0.20	0.10	0.08	0.03
Aerial Lift	0.17	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.175	3.669	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.13	0.08	0.05	0.03
Aerial Lift	0.42	3.64	0.21	4667	>1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.03	0.02	0.01
Crane	0.42	2.5	0.21	7000	>1	0.027	0.008	1.027	1.008	0.431	2.520	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.03	0.02	0.02
Forklift (rough)	0.17	2.5	0.43	4667	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.04	0.03	0.02
IV3Major Equipment (he	0.19	2.01	0.59	4007	2000	0.027	0.008	1.027	1.008	0.195	2.031	0.00	0.00		0.02	0.01	0.01		0.00	5.00	0.09	0.23	0.12	0.09	0.06
Crane	0.17	2.5	0.43	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.07	0.12	0.01	0.01
Crane	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.07	0.12	0.01	0.01
Roller	0.17	2.5	0.43	7000	>1	0.027	0.008	1.027	1.008	0.175	2.520	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03	0.09	0.14	0.01	0.00
Roller	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.00	0.00
Roller	0.17	2.61	0.59	7000	>1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.14	0.00	0.00
Roller	0.17	2.01	0.59	1 /000	21	0.027	0.008	1.027	1.008	0.1/5	2.031	_0.00_	0,00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	_0.00	0.09	V.14	0.00	0.00

Equipment Type ¹	SCC1	Engine Technology Type	No.of Equipment	'Equipment Horsepower	Fuel Type	Total Operating	% of Tot. Hrs Safety	Total Safety Related Hrs	Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Year 7	
Type .	A Alexandream	· · · · · · · · · · · · · · · · · · ·	#	hp		Hrs	Related		Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours	Operation %	Hours
V: Construction & Site	Support	ga marana an	360.878 A.A.A.A	well matters	\$ 9 \$\$\$	144-12/0462/	001002002	1988		2220 - 2233 -	\$100,000 pc; 52	V088		2000 Pag		870.86	2029963961 e		X0.0000	** *****	jan kanalara kanalar	10.00 M
Crane	2270002045	Т3	2	160 Hp	Diesel	11,968	0%	0	0%	0	5%	0	.15%	0	20%	D	20%	0	20%	0	20%	0
Aerial Lift	2270003010	T3	3	74 Hp	Diesel	8,976	0%	0	0%	0	5%	0	15%	0	20%	0	20%	0	20%	0	20%	0
Generator Set	2270006005	T2	1	600 Hp	Diesel	1,197	0%	0	0%	0	5%	0	15%	0	25%	0	20%	0	20%	0	15%	0
Welder	2270006025			<50 Hp	Diesel		0%	0		0		0		0		0		0		0		0
Air Compressor	2270006015			<50 Hp	Diesel		0%	0		0		0		0		0	1	0		0		0
Portable Lighting				<50 Hp	Diesel		0%	0		0		0		0		0		0		0		0
VI. Final Restoration	40.00000000	Martin Martin Con	an a			na an a	8.040 0	1800 (1888) 1990 (1990) (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990 (1990)	Restanti de 1971	1949(d))	111111111111111111111111111111111111111				UNI CONTRACT	U.C.A.	E BARRE D	11.3414		00000000		919 12 072 -
Crawler Tractors	2270002069	T3	3	410 Hp	Diesel	2,534	10%	253	0%	0	0%	0	0%	0	0%	D	0%	0	20%	51	80%	203
Crawler Tractors	2270002069	⊤3	3	235 Hp	Diesel	2,534	10%	253	0%	0	0%	0	0%	0	0%	0	0%	0	20%	51	80%	203
Excavator	2270002036	Τ3	1	148 Hp	Diesel	704	10%	70	0%	0	0%	0	0%	0	0%	D	0%	0	20%	14	80%	56
Dumper/Tener	2270002078	Τ3	6	400 Hp	Diesel	4,224	10%	422	0%	0	0%	0	0%	D	0%	0	0%	0	20%	84	80%	338
Grader	2270002048	Τ3	2	259 Hp	Diesel	1,690	10%	169		0	0%	0	0%	0	0%	0	0%	0	20%	34	80%	135
Surfacing	2270002024	Т3	3	156 Hp	Diesel	2,534	10%	253	0%	0	0%	0	0%	D	0%	D	0%	0	20%	51	80%	203
Forklift (rough)	2270002057	Т3	2	115 Hp	Diesel	845	10%	84	0%	0	0%	0	0%	0	0%	0	0%	0	20%	17	80%	68

NOTES:

Note 1: Equipment type and SCC code based on Appendix A of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

Note 2: Zero hour steady state emission factor (EFss; g/hp-hr), and load factor are from NMIM/NONROAD08 model factors dated April 5, 2009.

Note 3: Median life is taken from Table 1 of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

EFss from NMIM/NONROAD08 have transient adjustment factors built in.

Note 4: Age factor and Deterioration factors calculated using Equation 4 from "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009. Age Factor = LF * cumulative hours / median life (where Age factor is capped at 1. For this calculation, age factor is assumed to be 1 for simplification purposes). Deterioration Factors = 1 + (A * Age Factor*), where = 1 for deset engines and A is taken from Table A4 from source

Note 5: Adjusted Emission Factors for HC and NOx are calculated using Equation 1 from, "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009, Adjusted EF = Efss * TAF * DF (as stated in Note 2, EFss have TAFs built in)

Note 6: Annual VOC Emissions are calculated using the following calculation (1.053 * Adj. HC emission factor (g/hp-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/lb)

1.053 is the ratio of VOC to HC from "Conversion Factors for Hydrocarbon Components", December 2005, EPA-420-P-05-015.

Annual NOx Emissions are calculated using the following calculation (Adj. NOx emission factor (g/np-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/b)

	Criteria F	Pollutants	3.2802222	Median				Deteri	oration	Adjus	ted EF	8288688	8748		\$\$ 2 1200		En En	nissions	(tons) ⁶	Si			A BA	ana an	
Equipment Type ¹	EFss (g	/hp-hr) ²	Load	Life 3	Age	A".~		fac	tor 4	(g/hp	o-hr) ^s		89432 (c)	New York	HC 🔛			220				NOx	16. A C		
lype man	HC	NOx	Factor ²	Hours	Factor ⁴	НС	NOx	НС	NOx	HC	NOx	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 1,	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
V. Construction & Site S			CONTRACT.	12263025			200 S S S S S S S S S S S S S S S S S S	192 (C. 1937)	STALL PROVE		INC. SALES	90 7 0 (19	2000 () () (3000000.00	192 X	22 80-0265	5.296.296		ETAKA	10 NS (B)	144 ⁻				
Crane	0.18	2.5	0.43	4667	> 1	0.027	0.008	1.027	1.008	0.185	2.520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aerial Lift	0.42	3.64	0.21	4667	> 1	0.027	0.008	1.027	1.008	0.431	3.669	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generator Set	0.17	4.1	0.43	7000	>1	0.034	0.009	1.034	1.009	0.176	4.137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Welder	0	0	0.21	0	> 1	0	0	1.000	1.000	0.000	0.000														
Air Compressor	0	0	0.43	0	> 1	0	0	1.000	1.000	0.000	0.000				_										
Portable Lighting	0	0	0	0	>1	0	0	1.000	1.000	0.000	0.000														
VIEFinal Restoration	and the second			10000000000			33. F. T. D.						1975 al Martin	1887 (1898)	20.882.583		1.4.2.83	10.000 (S)		STATES AND	Q.,	2000	6.000	32.00	
Crawler Tractors	0.17	2.61	0.59	7000	> 1	0.027	0.008	1.027	1.008	0.175	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.14
Crawler Tractors	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.08
Excavator	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Dumper/Tener	0.38	3.03	0.21	7000	> 1	0.027	0.008	1.027	1,008	0,390	3,054	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.10
Grader	0.19	2.61	0.59	4667	>1	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06
Surfacing	0.19	2.61	0.59	4667	> 1	0.027	0.008	1.027	1,008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05
Forktift (rough)	0.19	2.61	0.59	4667	>1_	0.027	0.008	1.027	1.008	0.195	2.631	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

0.0 0.1 0.4 0.8 0.4 0.1 0.1 0.0 1.7 6.4 12.0 5.5 1.9 1.4

NOTES:

Note 1: Equipment type and SCC code based on Appendix A of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

Note 2: Zero hour steady state emission factor (EFss; g/hp-hr), and load factor are from NMIM/NONROAD08 model factors dated April 5, 2009.

Note 3: Median life is taken from Table 1 of "Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling", April 2004, EPA-420-P-04-005.

EFss from NMIM/NONROAD08 have transient adjustment factors built in.

Note 4: Age factor and Deterioration factors calculated using Equation 4 from "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009. Age Factor = LF * cumulative hours / median life (where Age factor is capped at 1. For this calculation, age factor is assumed to be 1 for simplification purposes). Deterioration Factor = 1 + (A * Age Factor*), where b = 1 for desel engines and A is taken from Table A4 from source

Note 5: Adjusted Emission Factors for HC and NOx are calculated using Equation 1 from, "Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression-Ignition", April 2004, EPA-420-P-04-009, Adjusted EF = Efss * TAF * DF (as stated in Note 2, EFss have TAFs built in)

Note 6: Annual VOC Emissions are calculated using the following calculation (1.053 * Adj. HC emission factor (g/hp-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/lb)

1,053 is the ratio of VOC to HC from "Conversion Factors for Hydrocarbon Components", December 2005, EPA-420-P-05-015.

Annual NOx Emissions are calculated using the following calculation (Adj. NOx emission factor (g/hp-hr) * horsepower * hours operated * load factor) / (2000 lb/ton * 453.6 g/lb)

Bell Bend Construction Co	ommuter Emissions	Year 1				
Average Workforce	150			tons/running	tons/startups	tons/Year 1
Average Vehicles	115		VOC	0.14	0.17	0.31
Average Travel (mi)	50 (Miles Rou	nd Trip)	NOX	0.92	0.08	1.00
Daily VMT=	5750					

			Average				VOC Emission	NOx Emission	Daily VOC	Daily NOx
			Speed	Distance	Percent of	VMT	Factor	Factor	Emissions	Emissions
Roadway	From	<u>To</u>	<u>(mph)</u>	(miles)	Traffic	(veh_miles)	(gram/veh-mi)	(gram/veh-mi)	(tons/Yr)	(tons/Yr)
Plant Entrance	Rt 11	Parking Area	15	1.4	100	322	0.1817	0.7993	0.0185	0.0814
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	922	0.0926	0.6339	0.0270	0.1847
Rt 11 N	Rt 239	Rt 81	50	15.2	42	1468	0.0926	0.6339	0.0430	0.2942
Rt 239	Rt 11	To the NW	30	15.2	5.7	199	0.12	0.6419	0.0076	0.0404
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	674	0.0926	0.6339	0.0197	0.1350
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	552	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	635	0.1024	0.6316	0.0205	0.1267
Rt 80	Rt 93	To the East	65	5.4	21.9	272	0.0919	0.6588	0.0079	0.0566
Rt 80**	Rt 11	To the West	65	10.1	30.4	706	0	0	0.0000	0.0000
Total						5750			0.144	0.919

	Emissions from startups	7-8AM EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
	VOC	3.907	2.667	3.574	3.047	115	526	0.166
ĺ	NOX	1.601	1.438	1.565	1.491	115	257	0.081

Bell Bend Construction Co	mmuter Emissions	Year 2					
Average Workforce	550			tons/running	tons/startups	tons/Year 2	1
Average Vehicles	423		VOC	0.53	0.61	1.14	
Average Travel (mi)	50 (Miles Round	d Trip)	NOX	3.38	0.30	3.68	
Daily VMT=	21150						

			Average				VOC Emission	NOx Emission	Daily VOC	Daily NOx
			Speed	Distance	Percent of	VMT	Factor	Factor	Emissions	Emissions
<u>Roadway</u>	From	<u>To</u>	<u>(mph)</u>	(miles)	<u>Traffic</u>	(veh-miles)	(gram/veh-mi)	(gram/veh-mi)	(tons/Yr)	(tons/Yr)
Plant Entrance	Rt 11	Parking Area	15	1.4	100	1184	0.1817	0.7993	0.0680	0.2993
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	3390	0.0926	0.6339	0.0992	0.6793
Rt 11 N	Rt 239	Rt 81	50	15.2	42	5401	0.0926	0.6339	0.1581	1.0823
Rt 239	Rt 11	To the NW	30	15.2	5.7	733	0.12	0.6419	0.0278	0.1487
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	2478	0.0926	0.6339	0.0725	0.4965
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	2032	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	2334	0.1024	0.6316	0.0756	0.4661
Rt 80	Rt 93	To the East	65	5.4	21.9	1000	0.0919	0.6588	0.0291	0.2084
Rt 80**	Rt 11	To the West	65	10.1	30.4	2598	0	0	0.0000	0.0000
Total						21150			0.530	3.381

Emissions from startups	7-8AM EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
VOC	3.907	2.667	3.574	3.047	423	1933	0.611
NOX	1.601	1.438	1.565	1.491	423	946	0.299

Bell Bend Construction Co	ommuter Emissions	Year 3				
Average Workforce	1950			tons/running	tons/startups	tons/Year 3
Average Vehicles	1500		VOC	1.65	1.44	3.10
Average Travel (mi)	50 (Miles Rour	nd Trip)	NOX	10.66	0.71	11.37
Daily VMT=	75000					

			Average				VOC Emission	NOx Emission	Daily VOC	Daily NOx
			Speed	Distance	Percent of	VMT	Factor	Factor	Emissions	Emissions
<u>Roadway</u>	From	<u>To</u>	<u>(mph)</u>	(miles)	<u>Traffic</u>	(veh-miles)	(gram/veh-mi)	(gram/veh-mi)	(tons/Yr)	(tons/Yr)
Plant Entrance	Rt 11	Parking Area	15	1.4	100	4200	0.1574	0.7122	0.2090	0.9456
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	12020	0.0816	0.5637	0.3101	2.1420
Rt 11 N	Rt 239	Rt 81	50	15.2	42	19152	0.0816	0.5637	0.4940	3.4128
Rt 239	Rt 11	To the NW	30	15.2	5.7	2599	0.1049	0.5708	0.0862	0.4690
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	8786	0.0816	0.5637	0.2266	1.5657
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	7205	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	8278	0.0899	0.5616	0.2353	1.4697
Rt 80	Rt 93	To the East	65	5.4	21.9	3548	0.0819	0.5872	0.0919	0.6586
Rt 80**	Rt 11	To the West	65	10.1	30.4	9211	0	0	0.0000	0.0000
Total		-				75000			1.653	10.663

Emissions from startups	7-8AM EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
VOC	3.907	2.667	3.574	3.047	1500	4570	1.445
NOX	1.601	1.438	1.565	1.491	1500	2236	0.707

Bell Bend Construction Co	ommuter Emissions	Year 4					
Average Workforce	3950			tons/running	tons/startups	tons/Year 4	
Average Vehicles	3039		VOC	3.35	1.44	4.79	
Average Travel (mi)	50 (Miles Round	d Trip)	NOX	21.60	0.71	22.31	Ì
Daily VMT=	151950						

			Average				VOC Emission	NOx Emission	Daily VOC	Daily NOx
			Speed	Distance	Percent of	VMT	Factor	Factor	Emissions	Emissions
<u>Roadway</u>	From	<u>To</u>	<u>(mph)</u>	<u>(miles)</u>	<u>Traffic</u>	(veh-miles)	(gram/veh-mi)	(gram/veh-mi)	(tons/Yr)	(tons/Yr)
Plant Entrance	Rt 11	Parking Area	15	1.4	100	8509	0.1574	0.7122	0.4234	1.9158
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	24353	0.0816	0.5637	0.6282	4.3397
Rt 11 N	Rt 239	Rt 81	50	15.2	42	38802	0.0816	0.5637	1.0009	6.9144
Rt 239	Rt 11	To the NW	30	15.2	5.7	5266	0.1049	0.5708	0.1746	0.9502
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	17801	0.0816	0.5637	0.4592	3.1721
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	14597	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	16772	0.0899	0.5616	0.4766	2.9775
Rt 80	Rt 93	To the East	65	5.4	21.9	7188	0.0819	0.5872	0.1861	1.3343
Rt 80**	Rt 11	To the West	65	10.1	30.4	18662	0	0	0.0000	0.0000
Total						151950			3.349	21.604

Emissions from startups	7-8AM EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
VOC	3.907	2.667	3.574	3.047	1500	4570	1.445
NOX	1.601	1.438	1.565	1.491	1500	2236	0.707

Bell Bend Construction C	Commuter Emissions	Year 5				
Average Workforce	3950			tons/running	tons/startups	tons/Year 5
Average Vehicles	3039		voc	3.35	1.44	4.79
· Average Travel (mi)	50 (Miles Round	Trip)	NOX	21.60	0.71	22.31
Daily VMT=	151950					

Roadway	From	To	Average Speed <u>(mph)</u>	Distance (miles)	Percent of <u>Traffic</u>	VMT <u>(veh-miles)</u>	VOC Emission Factor (gram/veh-mi)	NOx Emission Factor (gram/veh-mi)	Daily VOC Emissions (tons/Yr)	Daily NO Emissions (tons/Yr)
Plant Entrance	Rt 11	Parking Area	15	1.4	100	8509	0.1574	0.7122	0.4234	1.9158
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	24353	0.0816	0.5637	0.6282	4.3397
Rt 11 N	Rt 239	Rt 81	50	15.2	42	38802	0.0816	0.5637	1.0009	6.9144
Rt 239	Rt 11	To the NW	30	15.2	5.7	5266	0.1049	0.5708	0.1746	0.9502
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	17801	0.0816	0.5637	0.4592	3.1721
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	14597	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	16772	0.0899	0.5616	0.4766	2.9775
Rt 80	Rt 93	To the East	65	5.4	21.9	7188	0.0819	0.5872	0.1861	1.3343
Rt 80**	Rt 11	To the West	65	10.1	30.4	18662	0	0	0.0000	0.0000
Total			-			151950			3.349	21.604

Emissions from startups	7-8AM EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
VOC	3.907	2.667	3.574	3.047	1500	4570	1.445
NOX	1.601	1.438	1.565	1.491	1500	2236	0.707

Bell Bend Construction Co	ommuter Emissions	Year 6				
Average Workforce	2000			tons/running	tons/startups	tons/Year 6
Average Vehicles	1538		VOC	1.69	1.48	3.18
Average Travel (mi)	50 (Miles Round	l Trip)	NOX	10.93	0.72	11.66
Daily VMT=	76900					

Average Workforce	2000		tons/running	tons/startups	tons/Year 6
Average Vehicles	1538	VOC	1.69	1.48	3.18
Average Travel (mi)	50 (Miles Round Trip)	NOX	10.93	0.72	11.66
Daily VMT=	76900				
	Avera	ze			VOC Emission

			Average Speed	Distance	Percent of	VMT	VOC Emission Factor	NOx Emission Factor	Daily VOC Emissions	Daily NOx Emissions
<u>Roadway</u>	From	To	<u>(mph)</u>	(miles)	Traffic	(veh-miles)	(gram/veh-mi)	(gram/veh-mi)	(tons/Yr)	(tons/Yr)
Plant Entrance	Rt 11	Parking Area	15	1.4	100	4306	0.1574	0.7122	0.2143	0.9696
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	12325	0.0816	0.5637	0.3179	2.1963
Rt 11 N	Rt 239	Rt 81	50	15.2	42	19637	0.0816	0.5637	0.5066	3.4993
Rt 239	Rt 11	To the NW	30	15.2	5.7	2665	0.1049	0.5708	0.0884	0.4809
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	9009	0.0816	0.5637	0.2324	1.6054
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	7387	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	8488	0.0899	0.5616	0.2412	1.5069
Rt 80	Rt 93	To the East	65	5.4	21.9	3638	0.0819	0.5872	0.0942	0.6753
Rt 80**	Rt 11	To the West	65	10.1	30.4	9445	0	0	0.0000	0.0000
Total						76900			1.695	10.934

Emissions from startups	7-8AM EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
VOC	3.907	2.667	3.574	3.047	1538	4686	1.481
NOX	1.601	1.438	1.565	1.491	1538	2293	0.725

Bell Bend Construction Co	ommuter Emissions	Year 7					
Average Workforce	400			tons/running	tons/startups	tons/Year 7	
Average Vehicles	308		VOC	0.34	0.30	0.64	
Average Travel (mi)	50 (Miles Roun	id Trip)	NOX	2.19	0.15	2.33	
Daily VMT=	15400						

Average Workforce	400		tons/running	tons/startups	tons/Year 7
Average Vehicles	308	VOC	0.34	0.30	0.64
Average Travel (mi)	50 (Miles Round Trip)	NOX	2.19	0.15	2.33
Daily VMT=	15400	E	•	·	

			Average				VOC Emission	NOx Emission	Daily VOC	Daily NOx
			Speed	Distance	Percent of	VMT	Factor	Factor	Emissions	Emissions
Roadway	<u>From</u>	<u>To</u>	<u>(mph)</u>	(miles)	<u>Traffic</u>	(veh-miles)	(gram/veh-mi)	(gram/veh-mi)	(tons/Yr)	<u>(tons/Yr)</u>
Plant Entrance	Rt 11	Parking Area	15	1.4	100	862	0.1574	0.7122	0.0429	0.1942
Rt 11 N	Plant Entrance	Rt 239	50	8.4	47.7	2468	0.0816	0.5637	0.0637	0.4398
Rt 11 N	Rt 239	Rt 81	50	15.2	42	3933	0.0816	0.5637	0.1014	0.7008
Rt 239	Rt 11	To the NW	30	15.2	5.7	534	0.1049	0.5708	0.0177	0.0963
Rt 11 S	Plant Entrance	Rt 93	50	5.6	52.3	1804	0.0816	0.5637	0.0465	0.3215
Rt 11 S**	Rt 93	Rt 80	50	7.9	30.4	1479	0	0	0.0000	0.0000
Rt 93	Rt 11	Rt 80	40	12.6	21.9	1700	0.0899	0.5616	0.0483	0.3018
Rt 80	Rt 93	To the East	65	5.4	21.9	728	0.0819	0.5872	0.0189	0.1352
Rt 80**	Rt 11	To the West	65	10.1	30.4	1891	0	0	0.0000	0.0000
Total						15400			0.339	2.190

Emissions from startups	n EF (grams/ Vehicle-Start)	4-5PM EF (grams/ Vehicle-Start)	Mid-1AM EF (grams/ Vehicle-Start)	Avg EF (grams/ Vehicle-Start)	Vehicle Starts per Day	Startup Emissions/Day (Grams/Day)	Startup Emissions/Day (Tons/year)
VOC	3.907	2.667	3.574	3.047	308	938	0.297
NOX	1.601	1.438	1.565	1.491	308	459	0.145

Table B-3 - Delivery Vehicle Emissions Years 1-7 Bell Bend Emissions From all Deliveries Year 1

	tons/running	tons/startups	tons/Year 1
voc	0.07	0.004	0.08
NOX	1.38	0.008	1.39

									SWB Ozone MA
	Year 1	Year 1	Avg Distance	VMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
VOC	3,465.75	173,287.4	50.00	77,979.3	13,863.0	0.0	91,842.3	0.72	0.073
NOX	3,465.75	173,287.4	50.00	77,979.3	13,863.0	0.0	91,842.3	13.63	1.380

* Based on Avg of 40 MPH

	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
voc	1.252	1.027	1.038	1.042	3466	3611	0.004
NOX	2.603	1.923	1.958	1.969	3466	6826	0.008

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Bell Bend Emissions From all Deliveries Year 2

	tons/running	tons/startups	tons/Year 2
VOC	1.34	0.073	1.41
NOX	25.37	0.138	25.51

									SWB Ozone MA
	Year 2	Year 2	Avg Distance	VMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
VOC	63,693.34	3,186,186.4	50.02	1,433,783.9	254,773.4	0.0	1,688,557.2	0.72	1.340
NOX	63,693.34	3,186,186.4	50.02	1,433,783.9	254,773.4	0.0	1,688,557.2	13.63	25.371

* Based on Avg of 40 MPH

	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
voc	1.252	1.027	1.038	1.042	63693	66366	0.073
NOX	2.603	1.923	1.958	1.969	63693	125443	0.138

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Bell Bend Emissions From all Deliveries Year 3

	tons/running	tons/startups	tons/Year 3		
VOC	1.43	0.083	1.51		
NOX	27.01	0.156	27.17		

									SWB Ozone MA
	Year 2	Year 2	Avg Distance	VMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
VOC	72,046.34	3,664,018.9	50.86	1,648,808.5	288,185.4	0.0	1,936,993.9	0.67	1.431
NOX	72,046.34	3,664,018.9	50.86	1,648,808.5	288,185.4	0.0	1,936,993.9	12.65	27.014

* Based on Avg of 40 MPH

	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
VOC	1.252	1.027	1.038	1.042	72046	75069	0.083
NOX	2.603	1.923	1.958	1.969	72046	141894	0.156

Bell Bend Emissions From all Deliveries Year 4

	tons/running	tons/startups	tons/Year 4		
VOC	0.42	0.022	0.44		
NOX	7.88	0.042	7.93		

									SWB Ozone MA
	Year 2	Year 2	Avg Distance	VMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
VOC	19,534.26	1,082,465.6	55.41	487,109.5	78,137.0	0.0	565,246.6	0.67	0.418
NOX	19,534.26	1,082,465.6	55.41	487,109.5	78,137.0	0.0	565,246.6	12.65	7.883

* Based on Avg of 40 MPH

	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
VOC	1.252	1.027	1.038	1.042	19534	20354	0.022
NOX	2.603	1.923	1.958	1.969	19534	38472	0.042

Bell Bend Emissions From all Deliveries

	tons/running	tons/startups	tons/Year 5
VOC	0.23	0.011	0.24
NOX	4.25	0.021	4.27

									SWB Ozone MA
	Year 2	Year 2	Avg Distance	VMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
VOC	9,899.25	588,672.8	59.47	264,902.8	39,597.0	0.0	304,499.8	0.67	0.225
NOX	9,899.25	588,672.8	59.47	264,902.8	39,597.0	0.0	304,499.8	12.65	4:247

* Based on Avg of 40 MPH

	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
voc	1.252	1.027	1.038	1.042	9899	10314	0.011
NOX	2.603	1.923	1.958	1.969	9899	19496	0.021

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Bell Bend Emissions From all Deliveries Year 6

	tons/running	tons/startups	tons/Year 6
VOC	0.13	0.007	0.13
NOX	2.41	0.013	2.42

									SWB Ozone MA
	Year 2	Year 2	Avg Distance	VIMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
VOC	6,006.23	330,650.4	55.05	148,792.7	24,024.9	0.0	172,817.6	0.67	0.128
NOX	6,006.23	330,650.4	55.05	148,792.7	24,024.9	0.0	172,817.6	12.65	2.410

* Based on Avg of 40 MPH

	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
voc	1.252	1.027	1.038	1.042	6006	6258	0.007
NOX	2.603	1.923	1.958	1.969	6006	11829	0.013

Bell Bend Emissions From all Deliveries Year 7

· · · · ·	tons/running	tons/startups	tons/Year 7
VOC	0.12	0.007	0.13
NOX	2.33	0.013	2.34

									SWB Ozone MA
	Year 2	Year 2	Avg Distance	VMT from SWB	VMT from Reading	VMT from Non-MA	Total VMT in SWB	EF (grams/	Annual Emissions
	Trips	VMT	Traveled (miles)	Ozone MA	Ozone MA	Ozone MA	Ozone MA	veh-mile)*	(tons/year)
voc	5,989.13	318,132.2	53.12	143,159.5	23,956.5	0.0	167,116.0	0.67	0.123
NOX	5,989.13	318,132.2	53.12	143,159.5	23,956.5	0.0	167,116.0	12.65	2.331

* Based on Avg of 40 MPH

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	4 AM EF (g/VehStart)	Noon EF (g/VehStart)	8 PM EF (g/VehStart)	Avg EF (g/VehStart)	Vehicle Starts per Year	Startup Emissions (Grams/Year)	Startup Emissions (Tons/year)
voc	1.252	1.027	1.038	1.042	5989	6240	0.007
NOX	2.603	1.923	1.958	1.969	5989	11795	0.013

Bell Bend On-Site On-road Vehicles Year 1

	Non-safety & Safety Related			Safety Related			
	tons/running	nning tons/startups tons/Year :		SR tons/running	tons/running SR tons/startups		
VOC	0.19	0.056	0.24	0.00	0.000	0.00	
NOX	1.36 0.263		1.62	0.00	0.000	0.00	

		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
F250/F650	7531	753	6778	9.398	0.922	50.909	5.817	0.11	0.69
Mack MP6	3452	345	3107	10.638	1.393	71.011	12.370	0.08	0.66
Total								0.19	1.36

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	21	90338	0.346	1.629	0.034	0.162
Mack MP6	13	55923	0.346	1.629	0.021	0.100
Total					0.056	0.263

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	0	0	0	10.638	1.393	71.011	12.370	0.00	0.00

		Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	0	0	0.346	1.629	0.000	0.000

Year 2

Bell Bend On-Site On-road Vehicles

		Non-safety & Safety R	elated	Safety Related			
	tons/running	tons/startups	tons/Year 2	SR tons/running	SR tons/startups	SR tons/Year 2	
VOC	0.41	0.156	0.57	0.07	0.041	0.11	
NOX	3.11	0.734	3.84	0.60	0.193	0.80	

	Annual Operation	Annual Idle Hours of Operation (10%)	Annual Running Hours of Operation (90%)	Idle VOC EF (gram/veh-hr)	Run VOC EF (gram/veh-hr)	Idle NOx EF (gram/veh-hr)	Run NOx EF (gram/veh-hr)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	13157	1316	11841	9.398	0.922	50.909	5.817	0.19	1.21
Mack MP6	9867	987	8880	10.638	1.393	71.011	12.370	0.22	1.89
Total								0.41	3.11

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	52	223693	0.346	1.629	0.085	0.402
Mack MP6	43	184977	0.346	1.629	0.071	0.332
Total					0.156	0.734

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	3136.7	313.67	2823.03	10.638	1.393	71.011	12.370	0.07	0.60

		Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	25	107545	0.346	1.629	0.041	0.193

Year 3

Bell Bend On-Site On-road Vehicles

	Non-safety & Safety Related			Safety Related		
	tons/running	tons/startups	tons/Year 3	SR tons/running	SR tons/startups	SR tons/Year 3
VOC	0.68	0.180	0.86	0.09	0.041	0.13
NOX	4.84	0.850	5.69	0.75	0.193	0.94

	Annual Operation	Annual Idle Hours of Operation (10%)	Annual Running Hours of Operation (90%)	Idle VOC EF (gram/veh-hr)	Run VOC EF (gram/veh-hr)	Idle NOx EF (gram/veh-hr)	Run NOx EF (gram/veh-hr)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	29660	2966	26694	9.398	0.922	50.909	5.817	0.44	2.73
Mack MP6	10966	1097	9869	10.638	1.393	71.011	12.370	0.24	2.10
Total								0.68	4.84

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	67	288220	0.346	1.629	0.110	0.518
Mack MP6	43	184977	0.346	1.629	0.071	0.332
Total					0.180	0.850

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

		Annual	Annual			·			
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	3913.3	391.33	3521.97	10.638	1.393	71.011	12.370	0.09	0.75

	// = · =// = · · ·	Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	25	107545	0.346	1.629	0.041	0.193

Bell Bend On-Site On-road Vehicles Year 4

	Non-safety & Safety Related			Safety Related		
	tons/running	tons/startups	tons/Year 4	SR tons/running	SR tons/startups	SR tons/Year 4
VOC	0.66	0.130	0.79	0.07	0.016	0.09
NOX	4.55	0.610	5.16	0.60	0.077	0.68

	Annual	Annual Idle Hours	Annual Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
F250/F650	32545	3255	29291	9.398	0.922	50.909	5.817	0.48	3.00
Mack MP6	8059	806	7253	10.638	1.393	71.011	12.370	0.18	1.55
Total								0.66	4.55

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	63	271013	0.346	1.629	0.103	0.487
Mack MP6	16	68829	0.346	1.629	0.026	0.124
Total					0.130	0.610

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	3136.5	313.65	2822.85	10.638	1.393	71.011	12.370	0.07	0.60

		Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	10	43018	0.346	1.629	0.016	0.077

Bell Bend On-Site On-road Vehicles Year 5

	Non-safety & Safety Related			Safety Related		
	tons/running	tons/startups	tons/Year 5	SR tons/running	SR tons/startups	SR tons/Year 5
VOC	0.46	0.115	0.58	0.05	0.016	0.06
NOX	3.20	0.541	3.74	0.40	0.077	0.48

	Annual Operation	Annual Idle Hours of Operation (10%)	Annual Running Hours of Operation (90%)	Idle VOC EF (gram/veh-hr)	Run VOC EF (gram/veh-hr)	Idle NOx EF (gram/veh-hr)	Run NOx EF (gram/veh-hr)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	23522	2352	21170	9.398	0.922	50.909	5.817	0.35	2.17
Mack MP6	5372	537	4835	10.638	1.393	71.011	12.370	0.12	1.03
Total								0.46	3.20

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	54	232296	0.346	1.629	0.089	0.417
Mack MP6	16	68829	0.346	1.629	0.026	0.124
Total					0.115	0.541

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	2091	209.1	1881.9	10.638	1.393	71.011	12.370	0.05	0.40

		Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	10	43018	0.346	1.629	0.016	0.077

Year 6

Bell Bend On-Site On-road Vehicles

		Non-safety & Safety R	elated	Safety Related			
	tons/running	tons/startups	tons/Year 6	6 SR tons/running SR tons/startups SR		SR tons/Year 6	
VOC	0.15	0.087	0.24	0.01	0.016	0.03	
NOX	1.00	0.409	1.41	0.10	0.077	0.18	

	Annual	Annual Idle Hours	Annual Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
F250/F650	8573	857	7716	9.398	0.922	50.909	5.817	0.13	0.79
Mack MP6	1073	107	966	10.638	1.393	71.011	12.370	0.02	0.21
Total								0.15	1.00

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	43	184977	0.346	1.629	0.071	0.332
Mack MP6	10	43018	0.346	1.629	0.016	0.077
Total					0.087	0.409

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idie NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	522.5	52.25	470.25	10.638	1.393	71.011	12.370	0.01	0.10

		Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	10	43018	0.346	1.629	0.016	0.077

Year 7

Bell Bend On-Site On-road Vehicles

	Non-safety & Safety Related			Safety Related			
	tons/running	tons/startups	tons/Year 7	7 SR tons/running SR tons/startups SR		SR tons/Year 7	
voc	0.13	0.071	0.20	0.01	0.016	0.03	
NOX	0.86	0.332	1.19	0.10	0.077	0.18	

	Annual Operation	Annual Idle Hours of Operation (10%)	Annual Running Hours of Operation (90%)	Idle VOC EF (gram/veh-hr)	Run VOC EF (gram/veh-hr)	Idle NOx EF (gram/veh-hr)	Run NOx EF (gram/veh-hr)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	6925	693	6233	9.398	0.922	50.909	5.817	0.10	0.64
Mack MP6	1158	116	1042	10.638	1.393	71.011	12.370	0.03	0.22
Total								0.13	0.86

	No. of Vehicles	Annual No of Starts* Per Year for All Veh	VOC EF (gram/Veh-Start)	NOx EF (gram/Veh-Start)	Annual VOC (Tons/Year)	Annual NOx (Tons/Year)
F250/F650	33	141959	0.346	1.629	0.054	0.255
Mack MP6	10	43018	0.346	1.629	0.016	0.077
Total					0.071	0.332

* Number of Starts Per Day Per Vehicle (All Veh Types) = 15

SAFETY RELATED CONCRETE TRUCK

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		Annual	Annual						
	Annual	Idle Hours	Running Hours	Idle VOC EF	Run VOC EF	Idle NOx EF	Run NOx EF	Annual VOC	Annual NOx
	Operation	of Operation (10%)	of Operation (90%)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(gram/veh-hr)	(Tons/Year)	(Tons/Year)
Mack MP6	522.5	52.25	470.25	10.638	1.393	71.011	12.370	0.01	0.10

		Annual				
	No. of	No of Starts*	VOC EF	NOx EF	Annual VOC	Annual NOx
	Vehicles	Per Year for All Veh	(gram/Veh-Start)	(gram/Veh-Start)	(Tons/Year)	(Tons/Year)
Mack MP6	10	43018	0.346	1.629	0.016	0.077