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BUREAU OF AIR REGULATION

July 24, 1999

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Mr. Joseph Kahn, P.E.
New Source Review Section
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road, Mail Station #5505
Tallahassee, Florida 32399-2400

**Re: Champion International Corporation
McDavid Sawmill – Air Construction Permit Application
DEP File No. 0330260-001-AC (PSD-FL-271)**

Dear Mr. Kahn:

On behalf of Champion International Corporation (Champion), four copies of additional responses to the items raised in your July 8th correspondence to Champion regarding the proposed McDavid Sawmill are provided as follows:

Item 1:

An air quality analysis for PM₁₀ is attached; referenced revised Section 6.0 (Ambient Impact Analysis Methodology) and a new Section 9.0 (Ambient Impact Analysis Results). The model results demonstrate that the proposed McDavid Sawmill will not cause nor contribute to an exceedance of any National Ambient Air Quality Standard or PSD increment. Diskettes containing the dispersion modeling input and output files is included with one set of submittals.

Item 4.

Copies of vendor emissions data for the package boilers and planer mill dust collector were previously provided to you on July 16th. As requested, a revised emissions statement from the package boiler vendor indicating that the emission rate specifications are on a lower heating value (LHV) basis is attached.

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6.0 AMBIENT IMPACT ANALYSIS METHODOLOGY

6.1 GENERAL APPROACH

The approach used to analyze the potential impacts of the proposed facility, as described in detail in the following sections, was developed in accordance with accepted regulatory agency practice. Guidance contained in EPA manuals and users' guides was sought and followed. The modeling procedures used were discussed and approved by the FDEP.

6.2 POLLUTANTS EVALUATED

Based on an evaluation of anticipated worst-case annual operating scenarios, the McDavid Sawmill will have the potential to emit 39 tpy NO_x; 70.1 tpy of CO; 31.1 tpy of PM (including fugitives), 17.8 tpy of PM₁₀ (including fugitives); 0.3 tpy of SO₂, and 325.7 tpy of VOCs. Based on these potential emission rates, PM, PM₁₀, and VOCs are subject to the PSD NSR air quality impact analysis requirements of Rule 62-212. 400(5)(d), F.A.C.

The ambient impact analysis addresses PM and PM₁₀. Because VOCs contribute to the formation of ground-level ozone and because ozone modeling is conducted on a regional scale, modeling of VOC emissions resulting from operation of the McDavid Sawmill is not required. The biogenic VOC emissions projected for the McDavid Sawmill are small relative to area VOC emissions and will not affect the ozone attainment status for the area.

6.3 MODEL SELECTION AND USE

The most recent regulatory version of the Industrial Source Complex (ISC) models (EPA, 1998) is recommended and was used in this analysis for refined modeling. The ISC3 models are steady-state Gaussian plume models that can be used to assess air quality impacts over simple terrain from a wide variety of sources. The ISC3 models are capable of calculating concentrations for averaging times ranging from 1 hour to annual. For this study, the ISC3 short-term (ISCST3, Version 99155) model was used to calculate short-term ambient impacts with averaging times between 1 and 24 hours as well as long-term annual averages.

Procedures applicable to the ISCST3 dispersion model specified in EPA's *Guideline for Air Quality Models* (GAQM) were followed in conducting the refined dispersion modeling. The GAQM is codified in Appendix W of 40 CFR Part 51. In particular, the ISCST3 model control pathway MODELOPT keyword parameters DFAULT, CONC, RURAL, and TERRHGTS were selected. Selection of the parameter DFAULT, which specifies use of the regulatory default options, is recommended by the GAQM. The CONC, RURAL, and TERRHGTS parameters specify calculation of concentrations, use of rural dispersion, and elevated terrain receptors, respectively. As previously mentioned, the ISCST3 model was also used to determine annual average impact predictions, in addition to short-term averages, by using the PERIOD parameter for the AVERTIME keyword. Conservatively, no consideration was given to pollutant exponential decay.

6.4 DISPERSION OPTION SELECTION

Area characteristics in the vicinity of proposed emission sources are important in determining model selection and use. One important consideration is whether the area is rural or urban, since dispersion rates differ between these two classifications. In general, urban areas cause greater rates of dispersion because of increased turbulent mixing and buoyancy-induced mixing. This is due to the combination of greater surface roughness caused by more buildings and structures and greater amount of heat released from concrete and similar surfaces. EPA guidance provides two procedures to determine whether the character of an area is predominantly urban or rural. One procedure is based on land use typing and the other is based on population density. The land use typing method utilizes the work of Auer (Auer, 1978) and is preferred by EPA and FDEP because it is meteorologically oriented. In other words, the land use factors employed in making a rural/urban designation are also factors that have a direct effect on atmospheric dispersion. These factors include building types, extent of vegetated surface area and water surface area, types of industry and commerce, etc. Auer recommends that these land use factors be considered within 3 km of the source to be modeled to determine urban or rural classifications. The Auer land use typing method was used for the ambient impact analysis.

The Auer technique recognizes four primary land use types: industrial (I), commercial (C), residential (R), and agricultural (A). Practically all industrial and commercial areas

come under the heading of urban while the agricultural areas are considered rural. However, those portions of generally industrial and commercial areas that are heavily vegetated can be considered rural in character. In the case of residential areas, the delineation between urban and rural is not as clear. For residential areas, Auer subdivides this land use type into four groupings based on building structures and associated vegetation. Accurate classification of the residential areas into proper groupings is important to determine the most appropriate land use classification for the study area.

USGS 7.5-minute series topographic maps for the area were used to identify the land use types within a 3-km radius area of the proposed site. Based on this analysis, well over 50 percent of the land use surrounding the plant (i.e., primarily forests) was determined to be rural under the Auer land use classification technique. Therefore, rural dispersion coefficients and mixing heights were used for the Ambient Impact Analysis.

6.5 TERRAIN CONSIDERATION

The GAQM defines *flat terrain* as terrain equal to the elevation of the stack base, *simple terrain* as terrain lower than the height of the stack top, and *complex terrain* as terrain above the height of the plume center line (for screening modeling, *complex terrain* is terrain above the height of the stack top). Terrain above the height of the stack top but below the height of the plume center line is defined as *intermediate terrain*.

USGS 7.5-minute series topographic maps were examined for terrain features in the vicinity of the proposed McDavid Sawmill (i.e., within an approximate 10-km radius). Base elevation of the site is approximately 70 feet above mean sea level (ft-msl). Highest elevations in the vicinity of the site are approximately 250 ft-msl. Site base elevation plus the shortest project stack height (i.e., Planermill dust collector stack height of 23 + 70) is 93 ft-msl. Accordingly, terrain in the vicinity of the site would be classified as ranging from *flat* to *complex terrain*. Due to the significant amount of terrain elevation differences in the vicinity, assignment of receptor terrain elevations was conducted; i.e., elevations obtained from the USGS 7.5-minute series topographic maps were assigned to each receptor.

6.6 GOOD ENGINEERING PRACTICE STACK HEIGHT/BUILDING WAKE EFFECTS

The CAA Amendments of 1990 require the degree of emission limitation required for control of any pollutant not be affected by a stack height that exceeds good engineering practice (GEP) or any other dispersion technique. On July 8, 1985, EPA promulgated final stack height regulations (40 CFR 51). GEP stack height is defined as the highest of 65 meters, or a height established by applying the formula:

$$H_g = H + 1.5 L$$

where: H_g = GEP stack height.

H = height of the structure or nearby structure.

L = lesser dimension (height or projected width) of the nearby structure.

Nearby is defined as a distance up to five times the lesser of the height or width dimension of a structure or terrain feature, but not greater than 800 meters. While GEP stack height regulations require that stack height used in modeling for determining compliance with NAAQS and PSD increments not exceed the GEP stack height, the actual stack height may be greater. Guidelines for determining GEP stack height have been issued by EPA (1985).

The stack heights proposed for the McDavid Sawmill (e.g., package boilers, lumber kilns, and Planermill dust collector) are all less than the *de minimis* GEP height of 65 meters (213 ft) and, therefore, comply with the EPA promulgated final stack height regulations (40 CFR 51).

While the GEP stack height rules address the maximum stack height which can be employed in a dispersion model analysis, stacks having heights lower than GEP stack height can potentially result in higher downwind concentrations due to building downwash effects. The ISC dispersion models contain two algorithms that assess the effect of building downwash; these algorithms are referred to as the Huber-Snyder and Schulman-Scire methods. The following steps are employed in determining the effects of building downwash:

- A determination is made as to whether a particular stack is located in the area of influence of a building (i.e., within five times the lesser of the building's height or projected width). If the stack is not within this area, it will not be subject to downwash from that building.
- If a stack is within a building's area of influence, a determination is made as to whether it will be subject to downwash based on the heights of the stack and building. If the stack height to building height ratio is equal to or greater than 2.5, the stack will not be subject to downwash from that building.
- If both conditions in Items 1 and 2 are satisfied (a stack is within the area of influence of a building and has a stack height to building height ratio of less than 2.5), the stack will be subject to building downwash. The determination is then made as to whether the Huber-Snyder or Schulman-Scire downwash method applies. If the stack height is less than or equal to the building height plus one-half the lesser of the building height or width, the Schulman-Scire method is used. Conversely, if the stack height is greater than this criterion, the Huber-Snyder method is employed.
- The ISCST3 downwash input data consists of an array of 36 wind direction-specific building heights and projected widths for each stack. LB is defined as the lesser of the height and projected width of the building. For directionally dependent building downwash, wake effects are assumed to occur if a stack is situated within a rectangle composed of two lines perpendicular to the wind direction, one line at 5 LB downwind of the building and the other at 2 LB upwind of the building, and by two lines parallel to the wind, each at 0.5 LB away from the side of the building.

For the ambient impact analysis, the complex downwash analysis described above was performed using the current version of EPA's Building Profile Input Program (BPIP—Version 95086). The EPA BPIP program was used to determine the area of influence for each building, whether a particular stack is subject to building downwash, the area of influence for directionally dependent building downwash, and finally to generate the specific building dimension data required by the model. Dimensions of the build-

Table 6-1. Building/Structure Dimensions

Building/Structure	Dimensions		
	<u>Width</u> (meter)	<u>Length</u> (meter)	<u>Height</u> (meter)
Bark Bin	4.3	12.6	14.8
Sawdust (Fines) Bin	4.3	6.4	14.8
Chips Bin	4.3	12.6	14.8
Planermill Cyclone	4.9	6.1	23.2
Planermill Baghouse	5.0	5.0	15.5
Lumber Kilns (each)	10.4	30.5	8.0
Trimmer Building	46.6	55.8	11.2
Sawmill Building	48.2	99.1	13.2
Planermill Building	61.0	213.4	12.3
Rough Green Storage Area	14.6	56.4	9.1
Rough Dry Storage Shed	30.5	53.3	9.1

Sources: ECT, 1999.
Champion, 1999.

-ing/structures evaluated for wake effects are shown in Table 6-1; the locations of these buildings/structures were previously provided on Figure 2-2. BPIP output consists of an array of 36 direction-specific (10 to 360°) building heights and projected building widths for each stack suitable for use as input to the ISCST3 model.

6.7 RECEPTOR GRIDS

Receptors were placed at locations considered to be *ambient air*, which is defined as “that portion of the atmosphere, external to buildings, to which the general public has access.” The entire perimeter of the plant site, excluding natural barriers, will be fenced; therefore, the nearest locations of general public access are at the facility property lines.

Consistent with GAQM recommendations, the ambient impact analysis utilized the following receptor grids:

- Fence Line Receptors: Receptors placed on the site boundary spaced 50 meters apart.
- Near-Field Discrete Receptors: Cartesian receptors placed at 100-meter spacings from the site fence line to the first mid-field polar receptor ring located 1 km from the center of the project site.
- Mid-Field Polar Receptors: Receptor rings (with 36 receptors per ring at 10° intervals) starting 1 km from the center of the project site and extending to 5 km at 250-meter spacings.
- Far-Field Polar Receptors: Receptor rings (with 36 receptors per ring at 10° intervals) starting 5.5 km from the site and extending to 10 km at 500-meter spacings.

Each polar receptor ring was offset 5° from the previous ring to improve the spatial distribution.

A depiction of the receptor grids out to distances of 2 and 10 km are shown in Figures 6-1 and 6-2, respectively.

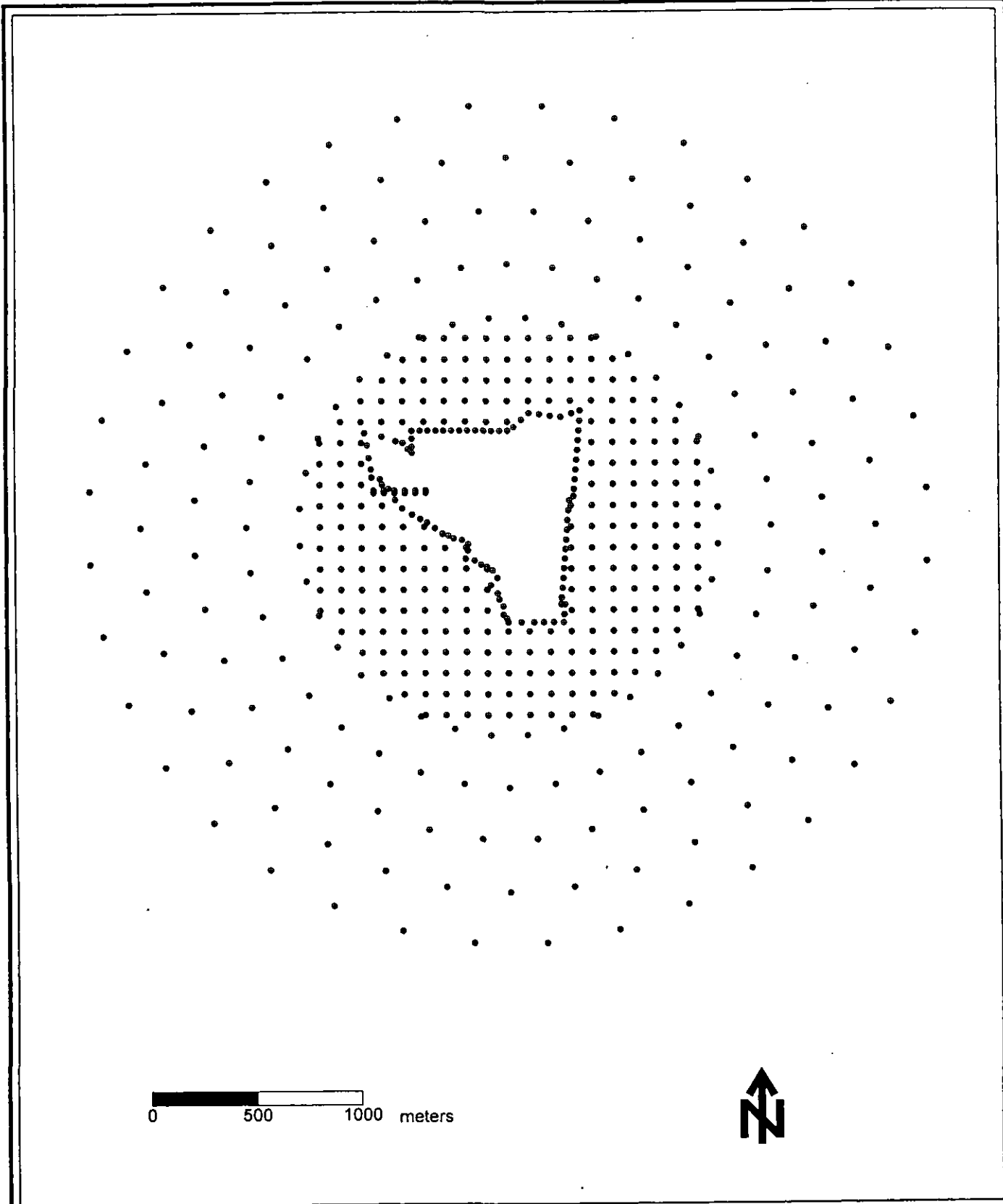
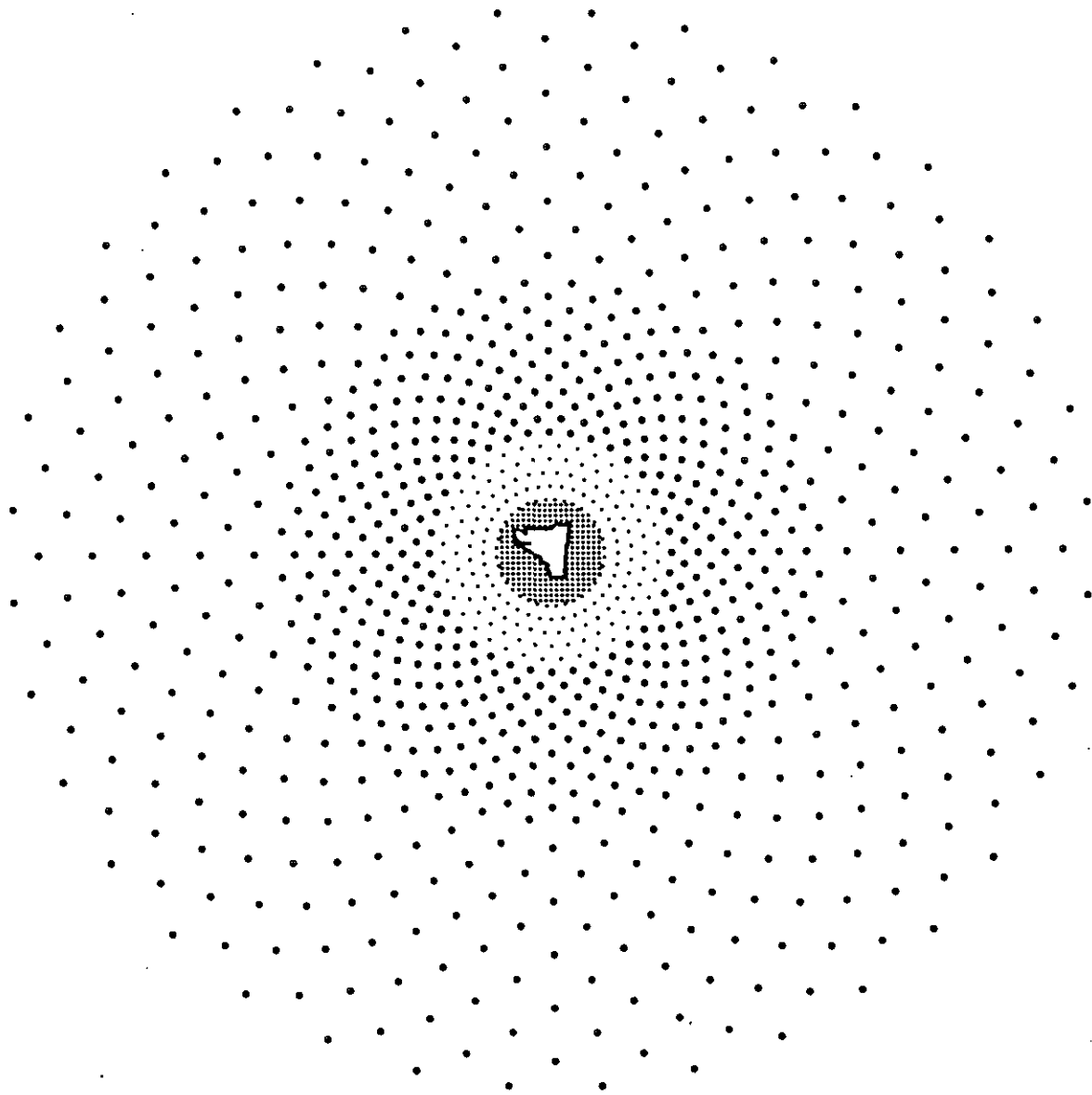


FIGURE 6-1.
RECEPTOR LOCATIONS (WITHIN 2 KM)

Source: ECT, 1999.

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0 5000 10000 meters



FIGURE 6-2.

RECEPTOR LOCATIONS (FROM 2 TO 10 KM)

Source: ECT, 1999.

ECT

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6.8 METEOROLOGICAL DATA

Detailed meteorological data are needed for modeling with the ISC dispersion models. The ISCST3 model requires a preprocessed data file compiled from hourly surface observations and concurrent twice-daily rawinsonde soundings (i.e., mixing height data).

There are no onsite surface or upper meteorological stations. The nearest offsite surface meteorological station is located at the Pensacola Regional Airport approximately 37 km (23 miles) south, southeast of the McDavid Sawmill site. The nearest offsite upper air meteorological station is located at the Apalachicola Municipal Airport approximately 241 km (150 miles) southeast of the McDavid Sawmill site.

Short-Term Meteorological Data

Consistent with the GAQM and FDEP guidance, 5 consecutive years of the most recent, readily available, representative meteorological data were processed for the ambient impact analysis. For Escambia County, FDEP recommends use of Pensacola surface and Apalachicola upper air meteorological data in conducting the air quality analyses. As recommended by FDEP, 1986 through 1990 Pensacola surface (Pensacola Regional Airport—Station No. 13899) and Apalachicola upper air meteorological data were used in the Ambient Impact Analysis.

The surface and mixing height data for each of the 5 years were processed using the current version of EPA's PCRAMMET (Version 95300) meteorological preprocessing program to generate the meteorological data files in the format required by the ISCST3 dispersion model. PCRAMMET input files consist of the surface and mixing height files as obtained from the EPA SCRAM website. The mixing height file for each year must include mixing height records for December 31 of the year preceding the year of record and for January 1 of the year following the year of record. If records for these 2 days are unavailable, duplicate mixing height records are used with the year, month, and day changed appropriately.

In addition to the surface and mixing height meteorological data files, PCRAMMET requires input with respect to: (a) the use of dry or wet deposition calculations; (b) output

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filename; (c) output file type (UNFORM or ASCII); (d) surface data format (CD144, SAMSON, or SCRAM); and (e) latitude, longitude, and time zone of the surface meteorological station. In processing the Apalachicola and Pensacola meteorological data, the NONE deposition option was selected, ASCII output file chosen, and the SCRAM surface data format utilized. As obtained from the EPA SCRAM web site, Apalachicola surface station latitude and longitude coordinates (in decimal degrees) are 29.733 and 85.033, respectively. The Pensacola surface station latitude and longitude coordinates (in decimal degrees) are 30.467 and 87.200, respectively. The Pensacola surface station is located in time zone 6.

Actual anemometer height for the Pensacola surface station, obtained from the National Climatic Data Center (NCDC), is 22 ft (6.7 meters) for the time period of interest (i.e., 1986 through 1990).

Processing of the Apalachicola and Pensacola station meteorological data did not require any data replacement or substitution.

6.9 MODELED EMISSION INVENTORY

6.9.1 ON-PROPERTY SOURCES

On-property emission sources addressed in the ambient impact analysis consisted of the two package boilers, three lumber kilns, Planermill dust collector, and fugitive PM/PM₁₀ emissions sources (i.e., material handling and storage, outdoor storage piles, and truck traffic on paved roadways).

Emission rates and stack parameters for the McDavid Sawmill point were provided in Table 2-4 of the June 1999 permit application. Facility fugitive emission sources were modeled as volume sources in accordance with recommendations contained in the ISC3 User's Guide. Specifically, the facility paved roadways were modeled as multiple, square volume sources. The facility material handling and storage fugitive emission sources were grouped into one volume source situated at the approximate center of these activities.

6.9.2 OFF-PROPERTY SOURCES

As will be discussed in Section 9.0, maximum air quality impacts are projected to be above the PSD significant impact level for PM/PM₁₀. Accordingly, a full, multi-source interactive assessment of PM₁₀ NAAQS attainment and PSD Class II increment consumption was required for the proposed sawmill.

An inventory of PM/PM₁₀ emission sources within approximately 75 km of the proposed sawmill was obtained from FDEP. A summary of the FDEP off-property PM₁₀ emission sources is provided on Table 6-2. A request for modeling data for PM/PM₁₀ sources located in Escambia and Baldwin Counties, Alabama was also requested from the Alabama Department of Environmental Management (ADEM). However, ADEM indicated that it may take several weeks to provide the requested inventory. Due to time constraints, the modeling analysis was conducted using only Florida off-site emissions data. As will be further discussed in Section 9.0, Ambient Impact Analysis Results, contributions to maximum McDavid Sawmill impacts from emission sources located in Alabama are expected to be insignificant.

Off-property PM/PM₁₀ emission sources included in the dispersion modeling analysis for the McDavid Sawmill consisted of all emission sources listed on Table 6-2 located within approximately 52 km of the project site; i.e., within the 1.3-km area of impact (AOI) distance plus 50 km, having potential/allowable emissions satisfying the "20D" rule. The "20D" rule allows for the screening of small, distant emission sources by means of the following algorithm:

$$E = 20 \times D$$

where,

E = Potential/allowable emission rate in tons per year

D = distance from the proposed sawmill in km

Off-site emission sources having emissions greater than E were included in the dispersion modeling inventory. Modeled off-property PM/PM₁₀ emission sources are highlighted on Table 6-2.

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance From McDavid (km)	EU ID	STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)												
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	3	12	2.7	78	26,004	75	PM	17.8	77.92	17.8	77.92
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	3	12	2.7	78	26,004	75	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	6	35	0.4	70	352	48	PM	6.15	5.6		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	6	35	0.4	70	352	48	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	9	30	6.8	70	28,200	12	PM	4	16.2		16.1
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	9	30	6.8	70	28,200	12	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	10	32	5.5	70	4,007	2	PM	4.9			21.5
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	10	32	5.5	70	4,007	2	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	11	12	3.3	70	49,813	97	PM	11.2			49.1
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	11	12	3.3	70	49,813	97	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	12	31	5.5	70	49,300	34	PM	5.9			25.9
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	12	31	5.5	70	49,300	34	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	14	30	6.8	70	30,000	13	PM	3.5			14.1
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	14	30	6.8	70	30,000	13	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	15	32	1.7	117	2,903	21	PM	0.2958	1.29		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	15	32	1.7	117	2,903	21	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	21	35	5.7	150	43,021	28	PM		7.19		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	21	35	5.7	150	43,021	28	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	25	28	7.3	135	71,015	28	PM		4.84		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	25	28	7.3	135	71,015	28	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	28	28	1.5	70	2,737	25	PM				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	28	28	1.5	70	2,737	25	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	29	35	3.4	177	10,568	19	PM	0.63	2.7594		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	29	35	3.4	177	10,568	19	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	31	35	6.4	242	57,900	29	PM		1.13		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	31	35	6.4	242	57,900	29	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	42	40	2	77			PM	9.33	40.86		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	42	40	2	77			PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	48	40	0.5	86	900	76	PM	8.97	39.29	8.97	
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	48	40	0.5	86	900	76	PM10	7.5	33		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	50	57	6.3	437	123,242	65	PM	18.1			79.3
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	50	57	6.3	437	123,242	65	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	54	32	5.5	82	35,911	25	PM	13.9			60.9
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	54	32	5.5	82	35,911	25	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	55	50	3.5	144	20,175	34	PM	9		9	39.4
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	55	50	3.5	144	20,175	34	PM10	7.46	32.7		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	56	32	5.5	70	30,000	21	PM	7.3			32
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	56	32	5.5	70	30,000	21	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	60	10	0.5		950	80	PM	0.037	0.0062		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	60	10	0.5		950	80	PM10	0.0019	0.0085		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	65	19	3.4	96	37,500	68	PM	2.4			10.5
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	65	19	3.4	96	37,500	68	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	66	19	3.4	96	37,500	68	PM				10.5
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	66	19	3.4	96	37,500	68	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	68	35	0.5	179	8,000	679	PM				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	68	35	0.5	179	8,000	679	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	70	35	2.3	70	15,000	60	PM				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	70	35	2.3	70	15,000	60	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	71	35	2.3	70	15,000	60	PM				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	71	35	2.3	70	15,000	60	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	72	35	1.5	500	4,000	37	PM		0.007		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	72	35	1.5	500	4,000	37	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	73	35	1.5	500	4,000	37	PM		0.007		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	73	35	1.5	500	4,000	37	PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	74	18	1.2	77			PM	0	0		
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	74	18	1.2	77			PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,383.5	43.6	78						PM				

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance From McDavid (km)	EU ID	STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)												
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,363.5	43.6	76						PM10				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,363.5	43.6	76						PM				
0330006	ARMSTRONG WORLD INDUSTRIES	475.9	3,363.5	43.6	76						PM10				
0330024	APAC-FLORIDA INC., E.M. CHADBOURN	454.5	3,414.6	18.4	1	31	5	250	45,000		38 PM		21.25		
0330024	APAC-FLORIDA INC., E.M. CHADBOURN	454.5	3,414.6	18.4	1	31	5	250	45,000		38 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	1	20	0.8	1400	169		5 PM	0.145	0.64		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	1	20	0.8	1400	169		5 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	2	60	4	435	71,000		94 PM	2.8	12.28		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	2	60	4	435	71,000		94 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	3	125	12	230	236,943		34 PM	0.63	2.75		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	3	125	12	230	236,943		34 PM10	0.63	2.75		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	4	125	12	230	236,943		34 PM	0.63	2.75		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	4	125	12	230	236,943		34 PM10	0.63	2.75		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	5	125	2.7	311	6,318		18 PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	5	125	2.7	311	6,318		18 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	7	125	2.7	311	7,198		20 PM	0.17	0.745		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	7	125	2.7	311	7,198		20 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	8	125	2.7	311	7,198		20 PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	8	125	2.7	311	7,198		20 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	9	125	2.7	311	7,198		20 PM	0.17	0.745		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	9	125	2.7	311	7,198		20 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	10	125	2.7	311	7,198		20 PM	0.17	0.745		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	10	125	2.7	311	7,198		20 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	11	125	2.7	311	7,198		20 PM	0.17	0.745		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	11	125	2.7	311	7,198		20 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	12	70	0.8	1400	169		5 PM	0.005	0.01		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	12	70	0.8	1400	169		5 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	13	125	2.7	311	9,798		28 PM	0.4	1.752		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	13	125	2.7	311	9,798		28 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	14	150	10	360	168,664		35 PM	0.2	40.3		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	14	150	10	360	168,664		35 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	15	150	10	360	168,664		35 PM	0.37			
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	15	150	10	360	168,664		35 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	16	150	10	360	168,664		35 PM	0.3			
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	16	150	10	360	168,664		35 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	28	60	1	70	3,530		74 PM	0.91	3.9	0.91	3.9
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	28	60	1	70	3,530		74 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	30	70	0.8	1400	169		5 PM	0.005	0.01		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	30	70	0.8	1400	169		5 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	31	70	0.8	1400	169		5 PM	0.005	2.1	0.005	2.1
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	31	70	0.8	1400	169		5 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	32	100	15	300	799		75 PM	3.9	17.1		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	32	100	15	300	799		75 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	38	33	0.3	200	100		23 PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	38	33	0.3	200	100		23 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	44	35	0.3	435	20		4 PM	2.4	10.512		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	44	35	0.3	435	20		4 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	45	115	0.9	77	2,100		55 PM	8.48		8.48	37
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	45	115	0.9	77	2,100		55 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	47	64	1	120	2,500		53 PM	4.73	20.72	4.73	
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	47	64	1	120	2,500		53 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	49	90	4.8	393	50,257		46 PM				7.9
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	49	90	4.8	393	50,257		46 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	50	60	1	86	12,000		254 PM	14.97			
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	50	60	1	86	12,000		254 PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	51	60	1	77	2,000		42 PM	19.24	84.2712		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	51	60	1	77	2,000		42 PM10				

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavid (km)	EU ID										
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	52	120	0.3		330	77	PM	0.08	0.35		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	52	120	0.3		330	77	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	53	60	3.3	1600	2,289	4	PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	53	60	3.3	1600	2,289	4	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	54	60	3	1500	9,100	21	PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	54	60	3	1500	9,100	21	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	59	20	0.8	1400	350	11	PM	0.61	0.22		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	59	20	0.8	1400	350	11	PM10	0.0325	0.154		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	60	54	1	136	7,000	148	PM	1.34	5.87		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	60	54	1	136	7,000	148	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	61	25	1.4	80	9,000	97	PM	9.5		9.5	42
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	61	25	1.4	80	9,000	97	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	62	25	1.4	80	9,000	97	PM	9.5		9.5	42
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	62	25	1.4	80	9,000	97	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	63	25	1.4	80	9,000	97	PM	9.5		9.5	
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	63	25	1.4	80	9,000	97	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	64	25	1.4	80	9,000	97	PM	9.5		9.5	41
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	64	25	1.4	80	9,000	97	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	65	115	1.5	110	9,000	84	PM	9.5	41.81	9.5	
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	65	115	1.5	110	9,000	84	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	66	25	1.4	80	9,000	97	PM	10.9	47.742	10.9	47.742
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	66	25	1.4	80	9,000	97	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	67	30	1	1500	830	13	PM	0.61			
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	67	30	1	1500	830	13	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	68	50	0.5	2930	380	32	PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	68	50	0.5	2930	380	32	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	69	70	0.8	1400	169	5	PM	0.005	0.01		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	69	70	0.8	1400	169	5	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	70						PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	70						PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	71						PM	4.73	20.72	4.73	
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	71						PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	72						PM	4.73	20.72	4.73	
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	72						PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	73	25	3	72	19,080	44	PM	27	118	4.9	21.5
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	73	25	3	72	19,080	44	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	75	125	2.7	311	9,798	28	PM				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	75	125	2.7	311	9,798	28	PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	76	125	3.5	158			PM	1.19	5.21		
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	76	125	3.5	158			PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	78	54	1	136			PM	1.35	5.91	1.35	5.91
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	79	54	1	136			PM10				
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	80	50	0.3	80			PM	0.21	0.82	0.21	0.82
0330040	SOLUTIA, INC.	476.0	3,385.0	22.7	80	50	0.3	80			PM10				
0330041	SACRED HEART HEALTH SYSTEM	480.0	3,372.0	36.3	3	73	3	300	3,280	7	PM	0.28	1.23		
0330041	SACRED HEART HEALTH SYSTEM	480.0	3,372.0	36.3	3	73	3	300	3,280	7	PM10				
0330041	SACRED HEART HEALTH SYSTEM	480.0	3,372.0	36.3	4	38	3	1800	16,041	37	PM	0.592	2.59		
0330041	SACRED HEART HEALTH SYSTEM	480.0	3,372.0	36.3	4	38	3	1800	16,041	37	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	2	47	4	500	65,000	86	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	2	47	4	500	65,000	86	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	3	125	8.5	350	161,000	47	PM	2.67	11.7	2.67	11.7
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	3	125	8.5	350	161,000	47	PM10	2.67	11.7	2.67	11.7
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	28	136	6.5	157	57,208	28	PM	10.9	47.7	10.9	47.7
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	28	136	6.5	157	57,208	28	PM10	10.9	47.7		
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	29	182	9	418	274,172	71	PM	111	486.18	111	486.18
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	29	182	9	418	274,172	71	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	30	182	9	430	252,670	86	PM	111	486.18	111	

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance From McDavid (km)	EU ID	STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)												
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	30	182	9	430	252,670	66	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	32	172	4	160	17,200	22	PM	26.4	104	26.4	
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	32	172	4	160	17,200	22	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	33	148	8	146	110,300	36	PM	26.8	118.3		118.3
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	33	148	8	146	110,300	36	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	36	88	4	153	23,600	31	PM	7.61			
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	36	88	4	153	23,600	31	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	37	221	11	144	229,000	40	PM	766	3355.1		240.9
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	37	221	11	144	229,000	40	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	38	172	4	160	17,200	22	PM	26.4	115.63	26.4	115.63
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	38	172	4	160	17,200	22	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	39	75	2	77	9,500	50	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	39	75	2	77	9,500	50	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	40						PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	40						PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	44	80	0.7	77	794	34	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	44	80	0.7	77	794	34	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	45	35	1	1000	2,700	57	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	45	35	1	1000	2,700	57	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	46	90	2.3	190	12,500	50	PM	1.59	6.96	1.59	6.96
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	46	90	2.3	190	12,500	50	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	47	60	0.3	50	146	34	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	47	60	0.3	50	146	34	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	48	60	0.3	50	146	34	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	48	60	0.3	50	146	34	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	49	60	0.3	50	146	34	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	49	60	0.3	50	146	34	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	51	67	1.5	158	8,227	77	PM				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	51	67	1.5	158	8,227	77	PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	52			77			PM	44.846	196.4		
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	52			77			PM10				
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	58	38	1.5	77	5,500	51	PM	0.846	2.21		
0330042	CHAMPION INTERNATIONAL CORPORA	469.0	3,385.8	20.8	58	38	1.5	77	5,500	51	PM10	0.312	0.786		
0330043	REICHHOLD, INC.	478.6	3,364.8	42.9	16	25	2.1	285	7,546	36	PM	0.1	0.438		
0330043	REICHHOLD, INC.	478.6	3,364.8	42.9	16	25	2.1	285	7,546	36	PM10				
0330043	REICHHOLD, INC.	478.6	3,364.8	42.9	17	25	2.1	285	10,733	51	PM	0.13	0.57		
0330043	REICHHOLD, INC.	478.6	3,364.8	42.9	17	25	2.1	285	10,733	51	PM10				
0330045	GULF POWER CO	478.3	3,381.4	26.9	1	450	18	290	802,500	52	PM	0.32	1.4		
0330045	GULF POWER CO	478.3	3,381.4	26.9	1	450	18	290	802,500	52	PM10				
0330045	GULF POWER CO	478.3	3,381.4	26.9	2	450	18	290	802,500	52	PM	32.009	140.2		
0330045	GULF POWER CO	478.3	3,381.4	26.9	2	450	18	290	802,500	52	PM10				
0330045	GULF POWER CO	478.3	3,381.4	26.9	3	450	18	290	802,500	52	PM	55	240.9		
0330045	GULF POWER CO	478.3	3,381.4	26.9	3	450	18	290	802,500	52	PM10	55	240.9		
0330045	GULF POWER CO	478.3	3,381.4	26.9	4	450	18	290	802,500	52	PM	1.02	4.49		
0330045	GULF POWER CO	478.3	3,381.4	26.9	4	450	18	290	802,500	52	PM	1.02	4.49		
0330045	GULF POWER CO	478.3	3,381.4	26.9	4	450	18	290	802,500	52	PM10				
0330045	GULF POWER CO	478.3	3,381.4	26.9	5	450	18	290	802,500	52	PM	47.64	208.7		
0330045	GULF POWER CO	478.3	3,381.4	26.9	5	450	18	290	802,500	52	PM	47.64	208.7		
0330045	GULF POWER CO	478.3	3,381.4	26.9	5	450	18	290	802,500	52	PM10	2.2	9.84		
0330045	GULF POWER CO	478.3	3,381.4	26.9	6	450	23.2	320	2,462,700	97	PM	313.64	1152		
0330045	GULF POWER CO	478.3	3,381.4	26.9	6	450	23.2	320	2,462,700	97	PM	313.64	1152		
0330045	GULF POWER CO	478.3	3,381.4	26.9	6	450	23.2	320	2,462,700	97	PM10				
0330045	GULF POWER CO	478.3	3,381.4	26.9	7	450	23.2	270	2,462,700	97	PM	450.8	1975		
0330045	GULF POWER CO	478.3	3,381.4	26.9	7	450	23.2	270	2,462,700	97	PM	450.8	1975		
0330045	GULF POWER CO	478.3	3,381.4	26.9	7	450	23.2	270	2,462,700	97	PM10				
0330045	GULF POWER CO	478.3	3,381.4	26.9	8	125	2.8	100	5,452	14	PM				
0330045	GULF POWER CO	478.3	3,381.4	26.9	8	125	2.8	100	5,452	14	PM10				

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavid (km)	EU ID										
0330054	FUNERAL SERVICES ACQUISITION GRC	478.7	3,388.0	39.8	1	16	1.7	700	5,220	38	PM				
0330054	FUNERAL SERVICES ACQUISITION GRC	478.7	3,388.0	39.8	1	16	1.7	700	5,220	38	PM10				
0330055	SOUTHERN PRESTRESSED, INC.	478.4	3,372.7	35.2	1	30	3.9	70	500		PM				
0330055	SOUTHERN PRESTRESSED, INC.	478.4	3,372.7	35.2	1	30	3.9	70	500		PM10				
0330060	COASTAL FUELS MARKETING, INC.	479.6	3,363.4	44.5	4	30	2.5	665	4,640	15	PM	0.151	0.663		
0330060	COASTAL FUELS MARKETING, INC.	479.6	3,363.4	44.5	4	30	2.5	665	4,640	15	PM10				
0330060	COASTAL FUELS MARKETING, INC.	479.6	3,363.4	44.5	5	30	2.5	665	4,640	15	PM	0.151	0.663		
0330060	COASTAL FUELS MARKETING, INC.	479.6	3,363.4	44.5	5	30	2.5	665	4,640	15	PM10				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	3	60	0.8	90			PM				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	3	60	0.8	90			PM10				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	4	60	0.8	90			PM				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	4	60	0.8	90			PM10				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	5	60	0.7	75	800	34	PM	0.0025	0.0033		
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	5	60	0.7	75	800	34	PM10				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	6	60	0.7	75	800	34	PM	0.0007	0.0009		
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	6	60	0.7	75	800	34	PM10				
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	7	50	0.4	70			PM	0.0025	0.0033		
0330063	SHEAR CONCRETE PRODUCTS, INC.	474.2	3,380.2	26.9	7	50	0.4	70			PM10				
0330064	UNIVERSITY OF WEST FLORIDA	479.8	3,379.5	29.2	1	50	6	320	2,800	1	PM				
0330064	UNIVERSITY OF WEST FLORIDA	479.8	3,379.5	29.2	1	50	6	320	2,800	1	PM10				
0330064	UNIVERSITY OF WEST FLORIDA	479.8	3,379.5	29.2	2	50	6	320	2,800	1	PM				
0330064	UNIVERSITY OF WEST FLORIDA	479.8	3,379.5	29.2	2	50	6	320	2,800	1	PM10				
0330064	UNIVERSITY OF WEST FLORIDA	479.8	3,379.5	29.2	3						PM				
0330064	UNIVERSITY OF WEST FLORIDA	479.8	3,379.5	29.2	3						PM10				
0330067	ESCAMBIA COUNTY UTILITIES AUTHOR	478.9	3,363.7	44.0	1	86	4.5	110	95,000	99	PM	2.28	9.96	2.28	9.96
0330067	ESCAMBIA COUNTY UTILITIES AUTHOR	478.9	3,363.7	44.0	1	86	4.5	110	95,000	99	PM10				
0330067	ESCAMBIA COUNTY UTILITIES AUTHOR	478.9	3,363.7	44.0	2	86	4.5	110	95,000	99	PM	2.28	9.96	2.28	9.96
0330067	ESCAMBIA COUNTY UTILITIES AUTHOR	478.9	3,363.7	44.0	2	86	4.5	110	95,000	99	PM10				
0330070	FLORIDA MINING & MATERIALS (W FL C	476.0	3,375.3	32.1	1	20	0.5	70	100	8	PM				
0330070	FLORIDA MINING & MATERIALS (W FL C	476.0	3,375.3	32.1	1	20	0.5	70	100	8	PM10				
0330070	FLORIDA MINING & MATERIALS (W FL C	476.0	3,375.3	32.1	2	20	0.5	86	100	8	PM				
0330070	FLORIDA MINING & MATERIALS (W FL C	476.0	3,375.3	32.1	2	20	0.5	86	100	8	PM10				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	1	40	0.5	70	100	8	PM				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	1	40	0.5	70	100	8	PM10				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	2	40	0.5	86	750	63	PM				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	2	40	0.5	86	750	63	PM10				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	3	40	0.5	86	750	63	PM				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	3	40	0.5	86	750	63	PM10				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	4	60	0.5	86	750	63	PM				
0330071	BUILDERS READY MIX CONCRETE COW	473.9	3,380.4	26.7	4	60	0.5	86	750	63	PM10				
0330080	G.S.I. RECYCLING, INC.	475.0	3,366.5	40.5	1	32	2	2200	5,445	28	PM	2.878	2.94		
0330080	G.S.I. RECYCLING, INC.	475.0	3,366.5	40.5	1	32	2	2200	5,445	28	PM10				
0330080	G.S.I. RECYCLING, INC.	475.0	3,366.5	40.5	1	32	2	1335	5,445	28	PM				
0330081	SOUTHERN SCRAP COMPANY, INC.	478.2	3,387.7	40.0	1	32	2	1335	5,445	28	PM10				
0330081	SOUTHERN SCRAP COMPANY, INC.	478.2	3,387.7	40.0	1	32	2	1335	5,445	28	PM				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	15	27	2	500	6,073	32	PM	0.14	0.48		
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	15	27	2	500	6,073	32	PM10				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	16	27	2	500	6,073	32.2	PM				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	16	27	2	500	6,073	32.2	PM10				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	24	24	1.5	340	655	6	PM	0.029	0.126		
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	24	24	1.5	340	655	6	PM10	0.0288	0.126		
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	27	62	3	500	11,928	28	PM	0.231	1.0118		
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	27	62	3	500	11,928	28	PM10	0.231	1.0118		
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	39						PM				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	39						PM10				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	40						PM				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	40						PM10				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	42						PM				

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavid (km)	EU ID										
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	42						PM10				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	44						PM				
0330082	UNITED STATES NAVY	472.3	3,358.3	48.4	44						PM10				
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	2	27	1	1800	895	18	PM	0.13	0.56		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	2	27	1	1800	895	18	PM10	0.13	0.56		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	3	12	1.2	360	8,268	121	PM	0.37	1.6		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	3	12	1.2	360	8,268	121	PM10	0.6	2.63		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	4	12	1.8	360	8,268	68	PM	0.37	1.6		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	4	12	1.8	360	8,268	68	PM10	0.6	2.63		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	5	12	1.8	360	8,268	68	PM	0.38	1.6		
0330086	NAVAL HOSPITAL	471.2	3,382.3	44.3	5	12	1.8	360	8,268	68	PM10	0.6	2.63		
0330091	SCI OF FL/GUARDIAN CHAPELS/D.B.A.	473.5	3,384.2	42.6	1	18	2.6	588	2,092	6	PM				
0330091	SCI OF FL/GUARDIAN CHAPELS/D.B.A.	473.5	3,384.2	42.6	1	18	2.6	588	2,092	6	PM10				
0330091	SCI OF FL/GUARDIAN CHAPELS/D.B.A.	473.5	3,384.2	42.6	2	18	1.7	1200	2,200	16.2	PM	0.43	1.9		
0330091	SCI OF FL/GUARDIAN CHAPELS/D.B.A.	473.5	3,384.2	42.6	2	18	1.7	1200	2,200	16.2	PM10				
0330093	SOUTHDOWN INCORPORATED	475.5	3,374.9	32.4	1	40	1.7	86	2,300	16	PM	0.887	0.059		
0330093	SOUTHDOWN INCORPORATED	475.5	3,374.9	32.4	1	40	1.7	86	2,300	16	PM10				
0330096	NAVY PUBLIC WORKS CENTER	467.0	3,370.0	36.6	2	60	2	400			PM	0.04	0.12		
0330096	NAVY PUBLIC WORKS CENTER	467.0	3,370.0	36.6	2	60	2	400			PM10				
0330096	NAVY PUBLIC WORKS CENTER	467.0	3,370.0	36.6	3	60	2	400			PM	0.92	2.76		
0330096	NAVY PUBLIC WORKS CENTER	467.0	3,370.0	36.6	3	60	2	400			PM10				
0330096	NAVY PUBLIC WORKS CENTER	467.0	3,370.0	36.6	4	60	2	400			PM	0.92	2.76		
0330096	NAVY PUBLIC WORKS CENTER	467.0	3,370.0	36.6	4	60	2	400			PM10				
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	3	30	2	500	5,000	26	PM	0.05	0.1		
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	3	30	2	500	5,000	26	PM10				
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	4	30	2	500	5,000	26	PM	0.99	1.98		
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	4	30	2	500	5,000	26	PM10				
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	5	30	2	500	5,000	26	PM				
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	5	30	2	500	5,000	26	PM10				
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	6	38	2.3	582	9,151	36	PM		1.37		
0330097	NAVY PUBLIC WORKS CENTER	472.2	3,383.8	42.9	6	38	2.3	582	9,151	36	PM10		1.37		
0330098	SHEAR CONCRETE PRODUCTS COMPA	462.0	3,361.2	45.9	1	40	0.5	86	1,000	84	PM				
0330098	SHEAR CONCRETE PRODUCTS COMPA	462.0	3,361.2	45.9	1	40	0.5	86	1,000	84	PM10				
0330100	SIKES CONCRETE PIPE COMPANY	475.1	3,374.6	32.6	1	40	0.5	86	750	63	PM				
0330100	SIKES CONCRETE PIPE COMPANY	475.1	3,374.6	32.6	1	40	0.5	86	750	63	PM10				
0330105	ABB SERVICES COMPANY	472.8	3,377.0	29.8	1	26	1.7	1400	2,383	17	PM	0.141	0.618		
0330105	ABB SERVICES COMPANY	472.8	3,377.0	29.8	1	26	1.7	1400	2,383	17	PM10				
0330110	COUCH, INC.	478.6	3,367.5	40.3	1	65	0.5	86	400	33	PM				
0330110	COUCH, INC.	478.6	3,367.5	40.3	1	65	0.5	86	400	33	PM10				
0330112	APAC-FLORIDA INC., E.M. CHADBOURN	472.7	3,381.1	45.6	1	29	2.5	325	38,500	130	PM	6.19	27.11		
0330112	APAC-FLORIDA INC., E.M. CHADBOURN	472.7	3,381.1	45.6	1	29	2.5	325	38,500	130	PM10				
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	3	37	1.3	1000	7,500	94.2	PM	0.0033	0.015		
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	3	37	1.3	1000	7,500	94.2	PM10		0.57		
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	5	37	1.1	1000	7,500	131.5	PM	0.0068	0.029		
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	5	37	1.1	1000	7,500	131.5	PM10	0.26	1.13		
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	6						PM				
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	6						PM10				
0330114	PENSACOLA CHRISTIAN COLLEGE, INC	477.8	3,371.0	36.7	7						PM10				
0330118	HARRIS CONCRETE AND PATIO CENTE	470.7	3,382.5	44.1	1	35	0.9	90	468	12	PM	0.3	0.54		
0330118	HARRIS CONCRETE AND PATIO CENTE	470.7	3,382.5	44.1	1	35	0.9	90	468	12	PM10	3	5.4		
0330119	WESTINGHOUSE ELECTRIC COMPANY	483.9	3,375.6	34.5	1	34	2.8	86			PM	2.25	9.86	2.25	9.86
0330119	WESTINGHOUSE ELECTRIC COMPANY	483.9	3,375.6	34.5	1	34	2.8	86			PM10	2.25	9.86		
0330119	WESTINGHOUSE ELECTRIC COMPANY	483.9	3,375.6	34.5	3						PM10	6.69	8.69		8.69
0330121	AUTOSHRED RECYCLING, L.L.C.	475.8	3,383.4	43.7	1	65	5	90	1,500	1	PM	4.1	8.61		
0330121	AUTOSHRED RECYCLING, L.L.C.	475.8	3,383.4	43.7	1	65	5	90	1,500	1	PM10				
0330122	HUDSCO, INC.	480.8	3,375.8	33.0	1	26	2	400	18,000	95	PM	3.8	3.8		
0330122	HUDSCO, INC.	480.8	3,375.8	33.0	1	26	2	400	18,000	95	PM10				

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		EU ID	STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavid (km)												
0330123	MAACO AUTO PAINTING & BODYWORK:	475.2	3,373.2	34.0	1		20	2.8	90	1,500	4	PM	1	1		
0330123	MAACO AUTO PAINTING & BODYWORK:	475.2	3,373.2	34.0	1		20	2.8	90	1,500	4	PM10				
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	1		80	0.5	90			PM				
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	1		80	0.5	90			PM10				
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	12		11	1.1	70	4,500	78	PM	4.2			
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	12		11	1.1	70	4,500	78	PM10		1.83		
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	24				77			PM				
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	24				77			PM10				
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	25		16	0.5	120	500	42	PM	4.6			
0330126	ARIZONA CHEMICAL - DIV OF IPCO	476.6	3,363.9	43.4	25		16	0.5	120	500	42	PM10			2	
0330127	PALL MEMBRANE TECHNOLOGY CENTI	480.3	3,376.4	32.3	9		17	1	77	2,800	59.4	PM		0.14		
0330127	PALL MEMBRANE TECHNOLOGY CENTI	480.3	3,376.4	32.3	9		17	1	77	2,800	59.4	PM10				
0330129	ENVIRO-MATES, INCORPORATED	474.6	3,363.0	44.0	1							PM	14.97	65.57	14.97	65.57
0330132	FREEPORT-MCMORAN SULPHUR LLC	480.0	3,363.2	44.8	1		30	2.5	76	1,455	4	PM	3.92	16.97		
0330132	FREEPORT-MCMORAN SULPHUR LLC	480.0	3,363.2	44.8	1		30	2.5	76	1,455	4	PM10	3.46	14.98		
0330132	FREEPORT-MCMORAN SULPHUR LLC	480.0	3,363.2	44.8	2		15	2.5	76	1,455	4	PM	0.68	0.85		
0330132	FREEPORT-MCMORAN SULPHUR LLC	480.0	3,363.2	44.8	2		15	2.5	76	1,455	4	PM10	0.6	0.75		
0330132	FREEPORT-MCMORAN SULPHUR LLC	480.0	3,363.2	44.8	3		15	2.5	76	1,455	4	PM	0.68	2.98		
0330132	FREEPORT-MCMORAN SULPHUR LLC	480.0	3,363.2	44.8	3		15	2.5	76	1,455	4	PM10	0.6	0.3942		
0330133	ADVANCED ELASTOMER SYSTEMS, L.P	476.5	3,384.6	23.3	6							PM	7.3	4.8	7.3	4.8
0330133	ADVANCED ELASTOMER SYSTEMS, L.P	476.5	3,384.6	23.3	6							PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	1		30	3	90	6,000	14	PM	7.68	9.6		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	1		30	3	90	6,000	14	PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	2		30	1.5	90	12,000	113	PM	4.32	5.4		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	2		30	1.5	90	12,000	113	PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	3		30	2	90	8,000	42	PM	2.4	3		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	3		30	2	90	8,000	42	PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	4		30	3.8	90	12,000	17	PM	14.4	18		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	4		30	3.8	90	12,000	17	PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	5		40	3	90	2,000	4	PM	1.92	2.4		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	5		40	3	90	2,000	4	PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	6		35	3.8	90	2,000	2	PM	19.44	24.3		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	6		35	3.8	90	2,000	2	PM10				
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	7		25	1.7	90	2,000	14	PM	12.24	15.3		
0330138	WEST FLORIDA COTTON GIN	453.4	3,427.9	26.3	7		25	1.7	90	2,000	14	PM10				
0330141	ECONO AUTOPAINTING OF PENSACOLA	477.6	3,369.4	38.2	1		30	2	70	9,100	48	PM	0.43	0.67		
0330141	ECONO AUTOPAINTING OF PENSACOLA	477.6	3,369.4	38.2	1		30	2	70	9,100	48	PM10				
0330144	FACT-O-BAKE OF PENSACOLA, INC.	476.5	3,371.0	36.4	1		18	2.7	70	16,755	48	PM	0.23	0.44		
0330144	FACT-O-BAKE OF PENSACOLA, INC.	476.5	3,371.0	36.4	1		18	2.7	70	16,755	48	PM10				
0330248	SPECIALTY MINERALS, INC.	469.6	3,374.6	31.9	1		9	0.67				PM	0.43	1.9		
0330248	SPECIALTY MINERALS, INC.	469.6	3,374.6	31.9	1		9	0.67				PM10	0.43	1.9		
0330248	SPECIALTY MINERALS, INC.	469.6	3,374.6	31.9	2		65	2	125	8,600	45.6	PM	1.53	6.4		
0330248	SPECIALTY MINERALS, INC.	469.6	3,374.6	31.9	2		65	2	125	8,600	45.6	PM10	1.53	6.4		
0330250	BORAL MATERIAL TECHNOLOGIES INC.	478.4	3,381.6	26.7	1							PM		0.011		
0330258	HENRY CHAMBERLAIN	480.3	3,363.5	44.6	1		25	3.5	220			PM				
0330258	HENRY CHAMBERLAIN	480.3	3,363.5	44.6	1		25	3.5	220			PM10				
0910016	CRESTVIEW READY MIX	541.9	3,407.5	73.1	2		50	0.5	86	1,000	84	PM				
0910016	CRESTVIEW READY MIX	541.9	3,407.5	73.1	2		50	0.5	86	1,000	84	PM10				
0910016	CRESTVIEW READY MIX	541.9	3,407.5	73.1	3		50	0.5	86	1,000	84	PM				
0910016	CRESTVIEW READY MIX	541.9	3,407.5	73.1	3		50	0.5	86	1,000	84	PM10				
0910025	FLORIDA MINING & MATERIALS	548.5	3,364.3	90.2	1		50	0.2	77	100	53	PM		3.47		
0910025	FLORIDA MINING & MATERIALS	548.5	3,364.3	90.2	1		50	0.2	77	100	53	PM10		3.47		
0910027	FLORIDA MINING & MATERIALS	538.0	3,368.5	77.2	2		5	0.2	77	100	53	PM	0.5	0.65		
0910027	FLORIDA MINING & MATERIALS	538.0	3,368.5	77.2	2		5	0.2	77	100	53	PM10				
0910027	FLORIDA MINING & MATERIALS	536.0	3,368.5	77.2	3		5	0.2	77	100	53	PM	0.5	0.65		
0910027	FLORIDA MINING & MATERIALS	536.0	3,368.5	77.2	3		5	0.2	77	100	53	PM10				
0910031	UNITED STATES AIR FORCE	542.6	3,389.6	62.6	2		25	3.5	147	14,370	24	PM	31.23	15.61	31.23	15.61

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		EU ID	STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavld (km)												
0910031	UNITED STATES AIR FORCE	542.6	3,369.6	82.6	2		25	3.5	147	14,370	24	PM10				
0910031	UNITED STATES AIR FORCE	542.6	3,369.6	82.6	8		59	2	77			PM	0.4	1.76		
0910031	UNITED STATES AIR FORCE	542.6	3,369.6	82.6	6		59	2	77			PM10	0.4	1.76		
0910033	FLEMING LUMBER CO	534.7	3,402.5	66.0	1		36	1.8	425	7,478	48	PM		2		
0910033	FLEMING LUMBER CO	534.7	3,402.5	66.0	1		36	1.8	425	7,478	48	PM10		1.5		
0910042	FUNERAL SERVICES ACQUISITION GRC	541.7	3,403.6	73.0	1		18	1.7	588	2,092	15	PM		5		
0910042	FUNERAL SERVICES ACQUISITION GRC	541.7	3,403.6	73.0	1		18	1.7	588	2,092	15	PM10				
0910050	PANHANDLE ANIMAL WELFARE SOCIET	530.4	3,365.5	74.0	1							PM	0.81	0.84		
0910050	PANHANDLE ANIMAL WELFARE SOCIET	530.4	3,365.5	74.0	1							PM10				
0910061	COX BUILDING CORPORATION	532.8	3,365.4	76.1	1		30		70	680	720	PM	26.4	33	26.4	33
0910061	COX BUILDING CORPORATION	532.8	3,365.4	76.1	1		30		70	680	720	PM10				
0910063	MARBLE WORKS	532.0	3,364.3	76.0	1		40	2	70	700	3.7	PM	0.0003	0.0004		
0910063	MARBLE WORKS	532.0	3,364.3	76.0	1		40	2	70	700	3.7	PM10				
0910063	MARBLE WORKS	532.0	3,364.3	76.0	2		20	2	70	5,000	26.5	PM	1.58	2.22		
0910063	MARBLE WORKS	532.0	3,364.3	76.0	2		20	2	70	5,000	26.5	PM10				
0910063	MARBLE WORKS	532.0	3,364.3	76.0	3				77			PM	0.13	0.18		
0910063	MARBLE WORKS	532.0	3,364.3	76.0	3				77			PM10				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	3							PM				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	3							PM10				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	4				400			PM				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	4				400			PM10				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	6				900			PM				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	6				900			PM10				
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	7				400			PM	4.14	2.78		
0910064	HURLBURT FIELD, USAF	529.7	3,364.7	73.9	7				400			PM10				
0910065	CHROMALLOY-FLORIDA	553.4	3,366.4	93.6	1							PM	0.056	0.24		
0910065	CHROMALLOY-FLORIDA	553.4	3,366.4	93.6	1							PM10	0.056	0.24		
0910065	CHROMALLOY-FLORIDA	553.4	3,366.4	93.6	5							PM	0.2	0.7		
0910065	CHROMALLOY-FLORIDA	553.4	3,366.4	93.6	5							PM10				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	4		50	4.8	325	52,100	47	PM	28.66	81.7308		
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	4		50	4.8	325	52,100	47	PM10				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	5		50	4.8	325	52,100	47	PM	18.66	81.7308		
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	5		50	4.8	325	52,100	47	PM10				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	6		30	6	76	2,200	1	PM				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	6		30	6	76	2,200	1	PM10				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	9		50	6.3	350	63,200	33	PM	24.11	105.6		
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	9		50	6.3	350	63,200	33	PM10				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	65				77			PM				
1130003	STERLING FIBERS, INC.	489.2	3,380.2	33.3	65				77			PM10				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	1		41	6.2	250	48,100	26	PM	0.864	3.827		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	1		41	6.2	250	48,100	26	PM10	0.6517	2.854		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	3		40	5	750	42,000	35	PM	1.592	6.974		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	3		40	5	750	42,000	35	PM10	1.59	6.97		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	5		36	0.8	700	1,963	65.1	PM		0.159		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	5		36	0.8	700	1,963	65.1	PM10	0.35	1.55		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	6		25	0.8	557	90	2	PM		0.27		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	6		25	0.8	557	90	2	PM10		0.27		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	7		25	2.8	1300	745	2	PM	0.09	0.394		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	7		25	2.8	1300	745	2	PM10				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	8		82	3.7	450	62,750	97	PM	1.849315	8.1		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	8		82	3.7	450	62,750	97	PM10		8.1		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	10		90	7.5	325	344,003	129	PM	2.553	11.182		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	10		90	7.5	325	344,003	129	PM10				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	11		25	2.5	350	18,400	62	PM	0.5644	2.472		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	11		25	2.5	350	18,400	62	PM10				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	14		52	2.5	224	7,800	26	PM	0.4539	1.988	137.4	601.812
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	14		52	2.5	224	7,800	26	PM10	0.4539	1.988		

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance From McDavid (km)	EU ID	STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)												
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	15	55	5	102	43,000	36	PM	3.04	13,315.2		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	15	55	5	102	43,000	36	PM10	3.04	13,315.2		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	18	55	5	102	48,000	40	PM	31	135.78	31	135.78
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	16	55	5	102	48,000	40	PM10	25.73	112,697.4		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	22	71	3	350	41,812	98	PM	0.28	1.13		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	22	71	3	350	41,812	98	PM10				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	23	94	2.5	340	29,797	101	PM	0.22	0.97		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	23	94	2.5	340	29,797	101	PM10		0.97		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	28	20	1.7	900	18,400	135	PM		1.732		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	28	20	1.7	900	18,400	135	PM10		1.732		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	27	15	0.25	100	50	17	PM		0.047		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	27	15	0.25	100	50	17	PM10		0.018		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	41			90			PM10	2.8	12.5		
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	42						PM				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	42						PM10				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	43	60	4	325	41,058	54.5	PM				
1130004	AIR PRODUCTS AND CHEMICALS, INC.	487.0	3,383.4	29.5	43	60	4	325	41,058	54.5	PM10	1.21	5.29		
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	36	35	2.5	800	6,465	22	PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	36	35	2.5	800	6,465	22	PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	37	35	2.5	800	17,333	58.9	PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	37	35	2.5	800	17,333	58.9	PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	38	30	1	800	3,726	79.1	PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	38	30	1	800	3,726	79.1	PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	40						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	40						PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	41						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	41						PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	42						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	42						PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	43						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	43						PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	44						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	44						PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	45						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	45						PM10				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	46						PM				
1130005	EXXON CO., USA (A DIV. OF EXXON COI	482.8	3,425.6	23.6	46						PM10				
1130014	PETRO OPERATING COMPANY	488.8	3,412.7	20.9	1	160	1.5	500	1,912	18	PM				
1130014	PETRO OPERATING COMPANY	488.8	3,412.7	20.9	1	160	1.5	500	1,912	18	PM10				
1130014	PETRO OPERATING COMPANY	488.8	3,412.7	20.9	11	20	2.5	500			PM				
1130014	PETRO OPERATING COMPANY	488.8	3,412.7	20.9	11	20	2.5	500			PM10				
1130015	GULF COAST PAVING & GRADING	493.8	3,384.0	33.7	2	31	3	200	42,592	100	PM	1.2	1.5		
1130015	GULF COAST PAVING & GRADING	493.8	3,384.0	33.7	2	31	3	200	42,592	100	PM10				
1130017	SANTA ROSA CONCRETE CO	496.8	3,386.5	34.5	2	60	0.5	77	900	76	PM	0.808	1.26		
1130017	SANTA ROSA CONCRETE CO	496.8	3,386.5	34.5	2	60	0.5	77	900	76	PM10				
1130017	SANTA ROSA CONCRETE CO	496.8	3,386.5	34.5	3	50	14	100	11		PM	0.16	0.25		
1130017	SANTA ROSA CONCRETE CO	496.8	3,386.5	34.5	3	50	14	100	11		PM10				
1130022	U.S. NAVY	497.8	3,398.2	30.2	1	44	4	430	82,190	109	PM	0.24	1.05		
1130022	U.S. NAVY	497.8	3,398.2	30.2	1	44	4	430	82,190	109	PM10				
1130022	U.S. NAVY	497.8	3,398.2	30.2	2	44	4	430	82,190	109	PM	0.24	1.05		
1130022	U.S. NAVY	497.8	3,398.2	30.2	2	44	4	430	82,190	109	PM10				
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	1	20	2.8	86	1,000	2	PM	13.075	14.71		
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	1	20	2.8	86	1,000	2	PM10				
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	2	35	3	78			PM	13.075	14.71		
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	2	35	3	78			PM10				
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	3	35	3	78			PM	13.075	14.71		
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	3	35	3	78			PM10				

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavid (km)	EU ID										
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	4	35	3	76			PM	13 075	14.71		
1130026	GOLDEN GIN & WAREHOUSE	484.8	3,426.1	25.3	4	35	3	76			PM10				
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	1	20	1	86	1,000		21 PM	12 032	12.13		
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	1	20	1	86	1,000		21 PM10				
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	2	20	1	86	1,000		21 PM	10.53	10.81		
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	2	20	1	86	1,000		21 PM10				
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	3	20	1	86	1,000		21 PM	43.24	43.581		
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	3	20	1	86	1,000		21 PM10				
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	4	20	1	86	1,000		21 PM	6 392	6 443		
1130027	BURKHEAD GIN	485.3	3,425.8	25.4	4	20	1	86	1,000		21 PM10				
1130028	SHEAR CONCRETE PRODUCTS COMPA	496.4	3,362.4	52.1	1	40	9.5	86	999		PM				
1130028	SHEAR CONCRETE PRODUCTS COMPA	496.4	3,362.4	52.1	1	40	9.5	86	999		PM10				
1130028	SHEAR CONCRETE PRODUCTS COMPA	496.4	3,362.4	52.1	2	40	9.5	86	999		PM				
1130028	SHEAR CONCRETE PRODUCTS COMPA	496.4	3,362.4	52.1	2	40	9.5	86	999		PM10				
1130030	SOUTHDOWN, INC.			3,438.7	2	30	2	100	800		4 PM		6.98		
1130030	SOUTHDOWN, INC.			3,438.7	2	30	2	100	800		4 PM10		6.98		
1130030	SOUTHDOWN, INC.			3,438.7	3						PM		0.9		
1130030	SOUTHDOWN, INC.			3,438.7	3						PM10		0.9		
1130031	THE QUIKRETE COMPANIES	497.1	3,383.5	36.5	1				9		PM	26.7333	40.1	32.87	49.3
1130031	THE QUIKRETE COMPANIES	497.1	3,383.5	36.5	1				9		PM10	4.93	21.6		
1130031	THE QUIKRETE COMPANIES	497.1	3,383.5	36.5	2				9		PM	0	8.8		
1130031	THE QUIKRETE COMPANIES	497.1	3,383.5	36.5	2				9		PM10		8.8		
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	1	10	0.3	1010	480		113 PM				
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	1	10	0.3	1010	480		113 PM10				
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	2	10	0.3	1010	480		113 PM				
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	2	10	0.3	1010	480		113 PM10				
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	7	25	0.7	1200	300		12 PM	0.002	0.0089		
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	7	25	0.7	1200	300		12 PM10				
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	8		0.2	1300	559		296 PM				
1130032	PETRO OPERATING COMPANY	515.2	3,427.8	51.0	8		0.2	1300	559		296 PM10				
1130033	SANTA ROSA CO. B. OF COMMISSIONEI	493.1	3,384.7	32.7	1	4	9	800			PM	39	60.84		
1130033	SANTA ROSA CO. B. OF COMMISSIONEI	493.1	3,384.7	32.7	1	4	9	800			PM10				
1130037	FLORIDA GAS TRANSMISSION COMPAN	510.8	3,419.6	44.0	6	35	2.1	495	35,820		172 PM	0.14	0.61	0.14	0.61
1130037	FLORIDA GAS TRANSMISSION COMPAN	510.8	3,419.6	44.0	6	35	2.1	495	35,820		172 PM10	0.14	0.61	0.14	0.61
1130037	FLORIDA GAS TRANSMISSION COMPAN	510.8	3,419.6	44.0	7						PM				
1130037	FLORIDA GAS TRANSMISSION COMPAN	510.8	3,419.6	44.0	7						PM10				
1130038	MOLD-EX RUBBER CO.,INC.	501.2	3,389.7	36.5	1						PM				
1130038	MOLD-EX RUBBER CO.,INC.	501.2	3,389.7	36.5	1						PM10				
1130038	MOLD-EX RUBBER CO.,INC.	501.2	3,389.7	36.5	7						PM				
1130038	MOLD-EX RUBBER CO.,INC.	501.2	3,389.7	36.5	7						PM10				
1130038	MOLD-EX RUBBER CO.,INC.	501.2	3,389.7	36.5	8	4	0.5	77	1,560		132 PM	0.0008	0.0037		
1130038	MOLD-EX RUBBER CO.,INC.	501.2	3,389.7	36.5	8	4	0.5	77	1,560		132 PM10				
1130039	COUCH, INC.	492.2	3,382.2	33.8	1	65	0.5	86	300		25 PM	0.065	0.2838		
1130039	COUCH, INC.	492.2	3,382.2	33.8	1	65	0.5	86	300		25 PM10	3.24	14.19		
1130040	ODOM FIBERGLASS, INCORPORATED	472.7	3,378.8	28.1	1	18	3	70	15,000		35 PM		0.2		
1130040	ODOM FIBERGLASS, INCORPORATED	472.7	3,378.8	28.1	1	18	3	70	15,000		35 PM10				
1130168	SANTA ROSA ENERGY LLC	489.1	3,381.3	32.4	1						PM				
1130189	LONE STAR INDUSTRIES, INC.	494.2	3,383.5	34.3	1						PM		0.77		
1130172	SANTA ROSA CO BOARD OF CO COMM	494.3	3,382.7	34.9	1						PM		5		
1130172	SANTA ROSA CO BOARD OF CO COMM	494.3	3,382.7	34.9	1						PM10				
1130173	GULF POWER COMPANY	485.6	3,381.6	30.1	1	60	4	325	41,058		54.5 PM				
1130173	GULF POWER COMPANY	485.6	3,381.6	30.1	1	60	4	325	41,058		54.5 PM10		4.64		
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	1	50	0.2	86	100		53 PM				
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	1	50	0.2	86	100		53 PM10				
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	2	60		70	750		0 PM	0.0006	0.0009		
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	2	60		70	750		0 PM10				
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	3	60		70	750		0 PM	0.0001	0.0002		

Table 6-2. FDEP PM/PM₁₀ Emission Inventory

AIRS_ID	OWNER/COMPANY	UTM Coordinates		Distance		STACK HT (ft)	DIAM (ft)	EXIT TEMP (°F)	FLOW (acfm)	VEL (ft/sec)	POLLUTANT	Pot (lb/hr)	Pot (tpy)	Allow. (lb/hr)	Allow. (tpy)
		EAST (km)	NORTH (km)	From McDavid (km)	EU ID										
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	3	60		70	750		0 PM10				
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	4	30		70	108		432 PM	4.28	6.45		
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	4	30		70	108		432 PM10				
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	5						PM				
7770024	JOSEPH CONCRETE COMPANY	496.1	3,387.9	33.1	5						PM10				
7770032	FORT WALTON CONCRETE COMPANY	538.3	3,364.4	81.3	1	25	0.5	86	999		84 PM				
7770032	FORT WALTON CONCRETE COMPANY	538.3	3,364.4	81.3	1	25	0.5	86	999		84 PM10				
7770032	FORT WALTON CONCRETE COMPANY	538.3	3,364.4	81.3	3	60	0.5	86	700		59 PM				
7770032	FORT WALTON CONCRETE COMPANY	538.3	3,364.4	81.3	3	60	0.5	86	700		59 PM10				
7770043	EWELL INDUSTRIES, INC.	533.4	3,370.5	74.0	1	30	1	76			PM				
7770043	EWELL INDUSTRIES, INC.	533.4	3,370.5	74.0	1	30	1	76			PM10				
7770058	NWF CONTRACTORS, INC.	482.6	3,370.3	38.8	1	64	0.4	90	900		119 PM	27.06	1.407	27.06	1.407
7770058	NWF CONTRACTORS, INC.	482.6	3,370.3	38.8	1	64	0.4	90	900		119 PM10				
7770058	NWF CONTRACTORS, INC.	482.6	3,370.3	38.8	2	64	0.4	90	900		119 PM	27.06	0.704	27.06	0.704
7770058	NWF CONTRACTORS, INC.	482.6	3,370.3	38.8	2	64	0.4	90	900		119 PM10				
7770058	NWF CONTRACTORS, INC.	482.6	3,370.3	38.8	3	22	0.2	90	140		74 PM	41.88	16.33	41.88	16.33
7770058	NWF CONTRACTORS, INC.	482.6	3,370.3	38.8	3	22	0.2	90	140		74 PM10				
7770147	ANDERSON COLUMBIA COMPANY, INC.	502.0	3,388.9	37.6	1	19	1.7	241	42,212		309 PM	5.33	8		
7770147	ANDERSON COLUMBIA COMPANY, INC.	502.0	3,388.9	37.6	1	19	1.7	241	42,212		309 PM10				
7774802	COUCH CONSTRUCTION, L.P.	540.6	3,370.6	80.3	1	42	10	130	76,400		18 PM	33.7	52.572	33.7	52.572
7774802	COUCH CONSTRUCTION, L.P.	540.6	3,370.6	80.3	1	42	10	130	76,400		16 PM10				
7774803	FT WALTON CONCRETE	546.2	3,375.6	83.4	1	40	1	86	900		19 PM				
7774803	FT WALTON CONCRETE	546.2	3,375.6	83.4	1	40	1	86	900		19 PM10				
7774803	FT WALTON CONCRETE	546.2	3,375.6	83.4	2						PM				
7774803	FT WALTON CONCRETE	546.2	3,375.6	83.4	2						PM10				
7774806	COUCH CONSTRUCTION, L.P.	493.7	3,385.1	32.9	1	20	2	130	27,000		143 PM	7.88	8.2		
7774806	COUCH CONSTRUCTION, L.P.	493.7	3,385.1	32.9	1	20	2	130	27,000		143 PM10	7.88	8.2		
7774806	COUCH CONSTRUCTION, L.P.	493.7	3,385.1	32.9	2						PM				
7774806	COUCH CONSTRUCTION, L.P.	493.7	3,385.1	32.9	2						PM10				
7774809	FLORIDA MINING & MATERIALS	476.9	3,427.1	22.1	1						PM				
7774809	FLORIDA MINING & MATERIALS	476.9	3,427.1	22.1	1						PM10				
7774809	FLORIDA MINING & MATERIALS	476.9	3,427.1	22.1	2						PM				
7774809	FLORIDA MINING & MATERIALS	476.9	3,427.1	22.1	2						PM10				
7774810	GROUP III ASPHALT, INC.	469.6	3,375.9	30.7	1	30	7	77			PM	3.2	2		
7774810	GROUP III ASPHALT, INC.	469.6	3,375.9	30.7	1	30	7	77			PM10	3.2	2		
7775008	GROUP III ASPHALT, INC.	469.9	3,375.9	30.7	1	41	4	300	50,025		66.4 PM	10.724	46.971	10.724	16.086
7775008	GROUP III ASPHALT, INC.	469.9	3,375.9	30.7	1	41	4	300	50,025		66.4 PM10				
7775030	COMPRESSION COAT, INC.	476.1	3,363.4	43.8	1	1	0.5		400		34 PM		5		
7775030	COMPRESSION COAT, INC.	476.1	3,363.4	43.8	1	1	0.5		400		34 PM10		5		
7775043	SHEAR CONCRETE PRODUCTS, INC	494.3	3,383.7	34.3	1	60	0.5	77	550		46.7 PM		5		
7775073	COUCH CONSTRUCTION L.P.	469.8	3,390.9	15.7	1						PM	13.72	20.58		
7775073	COUCH CONSTRUCTION L.P.	469.8	3,390.9	15.7	1						PM10				
7775074	PANHANDLE LAND & TIMBER	470.4	3,386.4	20.2	1						PM	14.57	8.09		
7775074	PANHANDLE LAND & TIMBER	470.4	3,386.4	20.2	1						PM10				

Source: FDEP, 1999.

9.0 AMBIENT IMPACT ANALYSIS RESULTS

MAXIMUM FACILITY IMPACTS AND SIGNIFICANT IMPACT AREAS

The refined ISCST3 model was used to model the proposed McDavid point and fugitive PM₁₀ emission sources. ISCST3 model results for each year of meteorology evaluated (1986—1990) are summarized on Table 9-1 (annual PM₁₀ impacts) and Table 9-2 (24-hour PM₁₀ impacts).

Tables 9-1 and 9-2 indicate that McDavid Sawmill PM₁₀ impacts will exceed the PSD significant impact levels previously shown in Table 4-2. A summary of maximum McDavid Sawmill impacts and PSD significant impact levels is provided on Table 9-3.

NAAQS ANALYSIS

An assessment of McDavid Sawmill emission source impacts, together with other major sources within approximately 52 km, was performed for comparison to the annual and 24-hour average PM₁₀ NAAQS. The modeled emission inventory included the McDavid Sawmill point and fugitive PM₁₀ emission sources, and all other sources contained in the FDEP PM emission inventory retrieval that are located within 52 km of the McDavid Sawmill site and that satisfied the “20D” rule. Conservatively, the PM emission rates provided by FDEP were assumed to be equal to PM₁₀ emission rates.

The receptor grids for the refined NAAQS analysis consisted of the fence line, near-field discrete, and mid-field polar receptors extending to 1.5 km consistent with the approximate 1.3 km AOI; i.e., the grid extended from the sawmill site out to 1.5 km.

The results of the annual and 24-hour average PM₁₀ NAAQS modeling are provided on Tables 9-4 and 9-5, respectively. These tables demonstrates that McDavid Sawmill emission source impacts, together with all other off-property PM emission sources and including background, are well below the annual and 24-hour average PM₁₀ NAAQS.

Table 9-1. ISCST3 Model Results - Maximum Annual Average PM/PM₁₀ Impacts

Maximum Annual Impacts	1986	1987	1988	1989	1990
ISCST3 Impact ($\mu\text{g}/\text{m}^3$)	1.89	1.87	2.12	1.85	2.48
PSD Significant Impact ($\mu\text{g}/\text{m}^3$)	1.0	1.0	1.0	1.0	1.0
Exceed PSD Significant Impact (Y/N)	Y	Y	Y	Y	Y
Percent of PSD Significant Impact (%)	189.3	187.3	211.7	185.3	247.7
Receptor UTM Easting (m)	468,545.8	468,343.1	468,343.4	468,545.8	468,343.4
Receptor UTM Northing (m)	3,406,416.0	3,406,672.5	3,406,672.5	3,406,416.0	3,406,672.5
Receptor Elevation (m)	12.2	15.2	15.2	12.2	15.2
Distance From DC1 (m)	277	453	453	277	453
Direction From DC1 (Vector °)	239	284	284	239	284

Source: ECT, 1999.

Table 9-2. ISCST3 Model Results - Maximum 24-Hour Average PM/PM₁₀ Impacts

Maximum 24-Hour Impacts	1986	1987	1988	1989	1990
ISCST3 Impact ($\mu\text{g}/\text{m}^3$)	12.85	15.52	15.50	11.86	18.64
PSD Significant Impact ($\mu\text{g}/\text{m}^3$)	5.0	5.0	5.0	5.0	5.0
Exceed PSD Significant Impact (Y/N)	Y	Y	Y	Y	Y
Percent of PSD Significant Impact (%)	257.0	310.4	310.0	237.2	372.8
PSD <i>de minimis</i> Ambient Impact Threshold ($\mu\text{g}/\text{m}^3$)	10.0	10.0	10.0	10.0	10.0
Exceed PSD <i>de minimis</i> Ambient Impact (Y/N)	Y	Y	Y	Y	Y
Percent of PSD <i>de minimis</i> Ambient Impact (%)	128.5	155.2	155.0	118.6	186.4
Receptor UTM Easting (m)	468,343.4	468,343.4	468,343.4	469,004.3	468,343.4
Receptor UTM Northing (m)	3,406,660.3	3,406,660.3	3,406,660.3	3,406,347.5	3,406,672.5
Receptor Elevation (m)	15.2	15.2	15.2	15.2	15.2
Distance From DC1 (m)	450	450	450	308	453
Direction From DC1 (Vector °)	283	283	283	134	284
Date of Maximum Impact	2/1/86	11/25/87	12/15/88	12/9/89	1/5/90
Julian Date of Maximum Impact	32	329	350	343	5

Source: ECT, 1999.

Table 9-3. McDavid Sawmill Emission Sources—Maximum PM₁₀ Impacts

Pollutant	Averaging Time	Maximum Impact (µg/m ³)	Significant Impact (µg/m ³)
PM/PM ₁₀	Annual	2.5	1.0
	24-hour	18.6	5.0

Source: ECT, 1999.

Table 9-4. ISCST3 Model Results - Maximum Annual Average PM₁₀ Impacts; NAAQS Analysis

Maximum Annual Impacts	1986	1987	1988	1989	1990
ISCST3 Impact ($\mu\text{g}/\text{m}^3$)	2.60	2.46	2.93	2.61	3.17
Background ($\mu\text{g}/\text{m}^3$)	24.0	24.0	24.0	24.0	24.0
Total Impact ($\mu\text{g}/\text{m}^3$)	26.6	26.46	26.93	26.61	27.17
NAAQS ($\mu\text{g}/\text{m}^3$)	50.0	50.0	50.0	50.0	50.0
Exceed NAAQS (Y/N)	N	N	N	N	N
Percent of NAAQS (%)	53.2	52.9	53.9	53.2	54.3
Receptor UTM Easting (m)	468,545.8	468,343.4	468,343.4	468,545.8	468,343.4
Receptor UTM Northing (m)	3,406,416.0	3,406,672.5	3,406,672.5	3,406,416.0	3,406,672.5
Distance From Grid Origin (m)	277	453	453	277	453
Direction From Grid Origin (Vector °)	239	284	284	239	284

Source: ECT, 1999.

Background ($\mu\text{g}/\text{m}^3$)	67.0	67.0	67.0	67.0	67.0
Total Impact ($\mu\text{g}/\text{m}^3$)	84.2	81.26	85.86	82.37	83.54
NAAQS ($\mu\text{g}/\text{m}^3$)	150.0	150.0	150.0	150.0	150.0
Exceed NAAQS (Y/N)	N	N	N	N	N
Percent of NAAQS (%)	56.1	54.2	57.2	54.9	55.7
Receptor UTM Easting (m)	468,763.9	468,506.4	468,582.6	468,763.9	468,343.4
Receptor UTM Northing (m)	3,406,974.3	3,406,957.3	3,406,957.3	3,406,974.3	3,406,672.5
Distance From DC1 (m)	415	483	444	415	453
Direction From DC1 (Vector °)	357	325	333	357	284
Date of Maximum Impact	10/1/86	12/26/87	2/2/88	6/4/89	1/16/90
Julian Date of Maximum Impact	274	360	33	155	16

Source: ECT, 1999.

The dispersion model results show that impacts from Florida off-site PM/PM₁₀ sources at receptors located within the McDavid Sawmill area of influence are insignificant. For example, the maximum 24-hour impact of the Gulf Power PM/PM₁₀ emission sources (totaling 3,524 tons per year) was less than 1.0 µg/m³. Because the Alabama PM/PM₁₀ emission sources are located at greater distances than the Florida off-site sources (and are expected to have lower emission rates), impacts from Alabama PM/PM₁₀ emission sources would also be expected to be insignificant in the vicinity of the McDavid Sawmill.

The NAAQS impact analyses was conducted using conservative premises for background PM₁₀ levels and off-property source PM₁₀ emission rates. ~~The highest 24-hour and annual average PM₁₀ value obtained from the FDEP PM₁₀ monitoring site located in Cantonment, Escambia for 1997 and 1998 was used as background.~~ *Monitors* This approach results in an over-estimation of total impacts due to "double-counting"; i.e., a portion of the FDEP monitored ambient PM₁₀ data would be expected to have been caused by the same PM₁₀ emission sources which are also included in the modeled emission inventory. As noted above, all PM emission rates provided by FDEP for the off-property sources were conservatively assumed to be equal to PM₁₀ emission rates.

Because of the conservative approach used in conducting the air quality analysis for PM₁₀ NAAQS impacts, there is reasonable assurance that the proposed McDavid Sawmill will not cause nor contribute to an exceedance of the PM₁₀ NAAQS.

PSD CLASS II INCREMENT ANALYSIS

An assessment of McDavid Sawmill impacts, together with other sources within 52 km, was performed for comparison to the annual and 24-hour average PSD Class II PM₁₀ increments. The modeled emission inventory included the McDavid Sawmill point and fugitive PM₁₀ emission sources, and all other sources contained in the FDEP PM emission inventory retrieval that are located within 52 km of McDavid Sawmill site and that satisfied the "20D" rule. The FDEP PM₁₀ emission inventory did not identify the specific emission sources which consume PSD PM₁₀ increment. Conservatively, *all off-*

property PM_{10} emission sources located within 52 km of McDavida Sawmill site were assumed to consume PSD increment. In addition, the PM emission rates provided by FDEP were conservatively assumed to be equal to PM_{10} emission rates.

The receptor grids for the refined PSD Class II PM_{10} increment analysis consisted of the same receptors used for the NAAQS analysis; i.e., the grid extended from the McDavida Sawmill site out to 1.5 km. The results of the 24-hour and annual average PSD Class II PM_{10} increment modeling are provided in Table 9-6 and 9-7, respectively. These tables demonstrate that maximum McDavida Sawmill impacts, together with all other PSD PM_{10} increment consuming emission sources, are below the 24-hour and annual average PSD Class II PM_{10} increments.

Similar to the NAAQS air quality analysis, the assessment of PSD Class II PM_{10} increment consumption was conducted using conservative premises. As noted above, *all* off-property PM emission sources were assumed to consume PSD PM_{10} increment. In addition, the PM emission rates provided by FDEP for the off-property sources were assumed to be equal to PM_{10} emission rates.

Because of the conservative approach used in conducting the air quality analysis for PM_{10} PSD Class II increment consumption, there is reasonable assurance that McDavida Sawmill will not cause nor contribute to an exceedance of the PSD Class II PM_{10} increments.

CONCLUSIONS

Comprehensive dispersion modeling, using the refined ISCST3 model, demonstrates that McDavida Sawmill emission sources, together with all off-property PM/ PM_{10} emission sources located within 52 km of sawmill site and including background concentrations, will result in ambient air quality impacts that are:

- Below the NAAQS for PM_{10} ; and
- Below the PSD Class II increment for PM_{10} .

Table 9-6. ISCST3 Model Results - Maximum Annual PM₁₀ Impacts; PSD Class II Increment Analysis

Maximum Annual Impacts	1986	1987	1988	1989	1990
ISCST3 Impact ($\mu\text{g}/\text{m}^3$)	2.60	2.46	2.93	2.61	3.17
PSD Class II Increment ($\mu\text{g}/\text{m}^3$)	17.0	17.0	17.0	17.0	17.0
Exceed PSD Class II Increment (Y/N)	N	N	N	N	N
Percent of PSD Class II Increment (%)	15.3	14.5	17.2	15.4	18.6
Receptor UTM Easting (m)	468,545.8	468,343.4	468,343.4	468,545.8	468,343.4
Receptor UTM Northing (m)	3,406,416.0	3,406,672.5	3,406,672.5	3,406,416.0	3,406,672.5
Distance From Grid Origin (m)	277	453	453	277	453
Direction From Grid Origin (Vector °)	239	284	284	239	284

Source: ECT, 1999.

Table 9-7. ISCST3 Model Results - High, Second Highest 24-Hour Average PM₁₀ Impacts; PSD Class II Increment Analysis

High, Second Highest 24-Hour Impacts	1986	1987	1988	1989	1990
ISCST3 Impact ($\mu\text{g}/\text{m}^3$)	17.2	14.3	18.9	15.4	16.5
PSD Class II Increment ($\mu\text{g}/\text{m}^3$)	30.0	30.0	30.0	30.0	30.0
Exceed PSD Class II Increment (Y/N)	N	N	N	N	N
Percent of PSD Class II Increment (%)	57.2	47.5	62.9	51.2	55.1
Receptor UTM Easting (m)	468,763.9	468,506.4	468,582.6	468,763.9	468,343.4
Receptor UTM Northing (m)	3,406,974.3	3,406,957.3	3,406,957.3	3,406,974.3	3,406,672.5
Distance From DC1 (m)	415	483	444	415	453
Direction From DC1 (Vector °)	357	325	333	357	284
Date of Maximum Impact	10/1/86	12/26/87	2/2/88	6/4/89	1/16/90
Julian Date of Maximum Impact	274	360	33	155	16

Source: ECT, 1999.

Based on the conservative nature of the air quality analysis, there is reasonable assurance that McDavid Sawmill will:

- Not cause nor contribute to an exceedance of any NAAQS or Florida AAQS.
- Not cause nor contribute to an exceedance of any PSD Class I or Class II increment.

A summary of the NAAQS and PSD Class II Increment model results is provided in Table 9-8.

Table 9-8. McDavid Sawmill—NAAQS and PSD Class II Increment PM₁₀ Impacts

Pollutant	Averaging Time	Maximum Impact (µg/m ³)	Standard (µg/m ³)
NAAQS			
PM/PM ₁₀	Annual	27.7	50.0
	24-hour (HSH)	85.9	150.0
PSD Class II			
PM/PM ₁₀	Annual	3.2	17.0
	24-hour (HSH)	18.9	30.0

Source: ECT, 1999.

BOILER VENDOR
EMISSIONS DATA



4274 Shackleford Rd., Norcross, GA 30093 USA
P.O. Box 1827, Norcross, GA 30091-1827 USA
TEL: (770) 925-7100 / FAX: (770) 925-7400

FAX / MEMO

DATE: 7/21/99

Page: 1 of 2

TO: Mark Culpepper
Mid-South Engineering

PHONE:

FAX: 501-624-4214

FROM: Dave Heinzmann

REFERENCE: Champion New Mill

This will confirm emission data given to you over the phone earlier. For a 55,000 PPH natural gas fired boiler, the following emission levels are achievable.

NOx – 0.1 #/MMBtu
CO – 0.1 #/MMBtu
VOC – 0.05 #/MMBtu
Particulate – 0.0035 #/MMBtu
SOx – 0.0006 #/MMBtu

Notes:

- 1) Particulate Matter is based on:
 - A. TSP level is based on conducting the first portion of EPA test method #5, which measures "filterable" or "non-condensable" particulate.
 - B. TSP level is based on the Natural Gas analysis outlined in Item B-05 of the project specifications.
 - C. TSP level is to exclude PM/PM10 contributions from the ambient combustion air.
- 2) SOx is based on maximum sulfur content in natural gas of 0.20 grains per 100 SCF of fuel gas.
- 3) Emissions based on 15% excess air and no flue gas recirculation (FGR).
- 4) Based on use of a Nebraska Model NS-E-58 or similarly sized boiler equipped with a feedwater economizer.
- 5) The above emission rates are applicable on the LHV basis of natural gas.

Hope this helps. We look forward to working with you on this project.

Dave Heinzmann

Attachment – Coen letter of July 10, 1999

cc: Tom Davis
ECT – Fax 352-332-6722
Ed Mockridge
Mike Cantrell

PROFESSIONAL ENGINEER
CERTIFICATION

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [✓], if so), I further certify that the engineering features of each such emissions unit described in this application have been ~~designed~~ or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Thomas W. Owen

Signature

7/24/99

Date

(seal)

* Attach any exception to certification statement.

This certification is applicable to the July 16th and July 24th submittals to the Department regarding Champion International Corporation's McDavid Sawmill project.