

AIR PERMIT MODIFICATION APPLICATION



SPX DEHYDRATION & PROCESS FILTRATION

(a subsidiary of SPX Corporation)

4647 S.W. 40TH AVENUE
OCALA, FLORIDA 34474
Delta Project No. 5E0807192P

Prepared by:

DELTA

8008 Corporate Center Drive
Charlotte, North Carolina 28226

September 2008

Dept. of Environmental
Protection
SEP 29 2008
Southwest District

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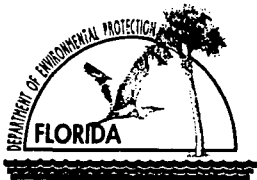
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Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Flair Corporation (SPX Dehydration and Process Filtration, a subsidiary of SPX Corporation)	
2. Site Name: SPX Dehydration and Process Filtration	
3. Facility Identification Number: 0830084 [] Unknown	
4. Facility Location: Street Address or Other Locator: 4647 S.W. 40 th Avenue City: Ocala County: Marion Zip Code: 34474-5722	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact: Kevin Johnson / Vice-President Operations	
2. Application Contact Mailing Address: Organization/Firm: Flair Corporation (SPX Dehydration and Process Filtration, a subsidiary of SPX Corporation) Street Address: 4647 S.W. 40 th Avenue City: Ocala State: FL Zip Code: 34474-5722	
3. Application Contact Telephone Numbers: Telephone: (352)-873-5156 Fax: (352)-873-5755	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	9/29/08
2. Permit Number:	0830084-008-AC / 009-AO

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.
- Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: _____

- Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: _____

Operation permit number to be revised: _____

- Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

- Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: 0830084007AF

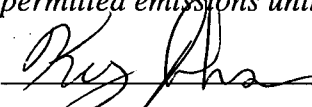
Reason for revision: Request increase in facility-wide emission limits, and construction of exempt emission source

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative: Kevin Johnson, Vice-President Operations
2. Owner/Authorized Representative Mailing Address: Organization/Firm: Flair Corporation (SPX Dehydration and Process Filtration, a subsidiary of SPX Corporation) Street Address: 4647 S.W. 40 th Avenue City: Ocala State: FL Zip Code: 34474-5722
3. Owner/Authorized Representative Telephone Numbers: Telephone: (352)-873-5156 Fax: (352)- 873-5755
4. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i> Signature  Date <u>9/23/08</u>

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Jyun – Yueh Wu Registration Number: 46730
2. Professional Engineer Mailing Address: Organization/Firm: Delta Consultants Street Address: 8008 Corporate Center Drive, Suite 100 City: Charlotte State: NC Zip Code: 28226
3. Professional Engineer Telephone Numbers: Telephone: (704)-543-3904 Fax: (704)-543-4035

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 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.

Signature *[Handwritten Signature]*

Date *9/5/2008*

Professional Engineer
Florida
46786
(seal)

Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Surface Coating Operation	AF2B	\$1,000
003	Plasma Torch Cutting Operation (Exempt Source)	AC1F	\$250

Application Processing Fee

Check one: Attached - Amount: \$ 1,250 Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

The facility is requesting to increase permitted emission limits to < 10 tons per year (tpy) for single HAPS and/or < 25 tpy for total HAPS, and to adjust VOC limits to <67 tpy, for Source ID: EU001.

The facility is installing a Koike Aronson Supergraph, Model #SGIV plasma torch burn table with a Scandmist MA 400D oilmist separator. The Scandmist unit will exhaust through the roof and is being installed to reduce employee industrial hygiene exposures to plasma fumes from metal cutting. (*Note: Installation of the Scandmist unit is not required for the control of pollutant emissions to the atmosphere.*) Uncontrolled PM emissions from the burn table is estimated to be <5.0 tpy.

2. Projected or Actual Date of Commencement of Construction: September 2008

3. Projected Date of Completion of Construction: September 2008

Application Comment

Submittal of this application will not result in any physical equipment additions or modifications to Source ID: EU001. The facility is requesting to increase permitted emission limits to < 10 tons per year (tpy) for single HAPS and/or < 25 tpy for total HAPS for Source ID: EU001 and to revise VOC emission limits to <67 tpy.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: _____ East (km): _____ North (km): _____			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 29 / 08 / 27.97 Longitude (DD/MM/SS): 82 / 11 / 11.81			
3. Governmental Facility Code: NA	4. Facility Status Code: A	5. Facility Major Group SIC Code: 35	6. Facility SIC(s): 3569
7. Facility Comment (limit to 500 characters): A metal fabrication facility which manufactures various types of compressed air dryers. Production processes include cutting, welding, sandblasting, surface coating, curing, and assembly.			

Facility Contact

1. Name and Title of Facility Contact: Kevin Johnson, Vice-President Operations		
2. Facility Contact Mailing Address: Organization/Firm: Flair Corporation (SPX Dehydration and Process Filtration, a subsidiary of SPX Corporation) Street Address: 4647 S.W. 40 th Avenue City: Ocala State: FL Zip Code: 34474-5722		
3. Facility Contact Telephone Numbers: Telephone: (352) -873-5156 Fax: (352) - 873-5755		

Facility Regulatory Classifications**Check all that apply:**

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Synthetic Non-Title V Source?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input checked="" type="checkbox"/> Synthetic Minor Source of HAPs?	
5. <input type="checkbox"/> One or More Emissions Units Subject to NSPS?	
6. <input type="checkbox"/> One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters): Current Permit No. 0830084007AF	

Rule Applicability Analysis

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B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
VOC	SM	-	<67	Other	Calculated PTE
HAP (single)	SM	-	<10	ESCT III	
HAP (total)	SM	-	<25	ESCT III	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)		
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).		
<input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.		
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.		
2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):		
Collectively-regulated group of process/production units (Source ID: EU001)		
- Large paint booth (a modified downdraft Binks Model 30-1800 spray booth)		
- Small paint booth (Binks SpraCure Really Clean AARC-50-630)		
3. Emissions Unit Identification Number: ID: EU001		<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
4. Emissions Unit Status Code: A	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code: 35
7. Emissions Unit Comment: (Limit to 500 Characters)		
Submittal of this application will not result in any physical equipment additions or modifications to Source ID: EU001. The facility is requesting to increase permitted emission limits to < 10 tons per year (tpy) for single HAPS and/or < 25 tpy for total HAPS for Source ID: EU001 and to revise VOC emission limits to <67 tpy.		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

Submittal of this application will not result in any physical equipment additions or modifications to Source ID: EU001. The facility is requesting to increase permitted emission limits to < 10 tons per year (tpy) for single HAPS and/or < 25 tpy for total HAPS for Source ID: EU001 and to revise VOC emission limits to <67 tpy.

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:
 Manufacturer: *No change from previous* Model Number:

2. Generator Nameplate Rating: *MW*

3. Incinerator Information:
 Dwell Temperature: °F
 Dwell Time: seconds
 Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: *NA* mmBtu/hr

2. Maximum Incineration Rate: *NA* lb/hr *NA* tons/day

3. Maximum Process or Throughput Rate: *No change from previous*

4. Maximum Production Rate: *No change from previous*

5. Requested Maximum Operating Schedule:
 24 hours/day 7 days/week
 52 weeks/year 8,760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

No change from previous application.

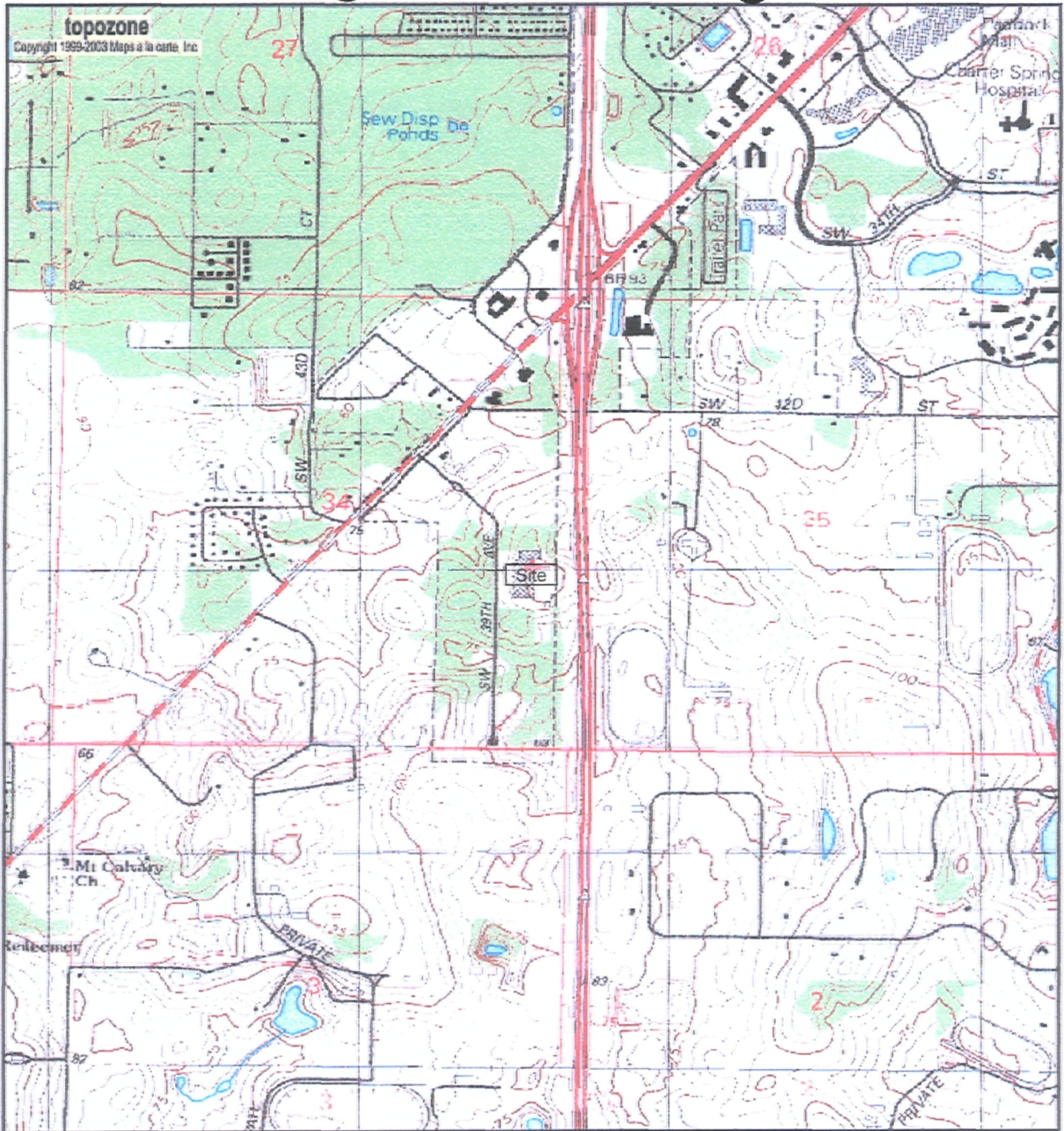
D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: HAP		2. Pollutant Regulatory Code:	
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control: NA	
6. Potential Emissions: 14.11 lb/hour 61.82 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: Reference: Mass Balance		9. Emissions Method Code: 2	
10. Calculation of Emissions (limit to 600 characters): Actual emissions are determined from monthly logs that document VOC and HAP materials used and calculated VOC and HAP emissions as required by permit No. 0830084-007-AF. Potential emissions are calculated based on worst-case paint scenario at 8,760 hours per year.			
11. Pollutant Potential Emissions Comment (limit to 200 characters): Potential emissions are calculated based on worst-case paint scenario at 8,760 hours per year.			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCT III	2. Future Effective Date of Allowable Emissions: Immediate upon issuance
3. Requested Allowable Emissions and Units: < 10 tpy for single HAP, <25 tpy total HAPs	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Monthly record keeping of total HAP emissions and rolling 12-month total emissions	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	



0 0.3 0.6 0.9 1.2 1.5 km
 0 0.2 0.4 0.6 0.8 1 mi

29° 08' 28"N, 82° 11' 12"W (NAD83/WGS84)

USGS Ocala West (FL) Quadrangle

Projection is UTM Zone 17 NAD83 Datum

M=-4.943
 G=-0.578

FIGURE 1 - SITE LOCATION MAP

SPX Dehydration and Process Filtration
 4647 S.W. 40th Ave.
 Ocala, FL

PROJECT NO: 5E0807192

DATE: 9/4/2008

SCALE: NTS

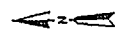
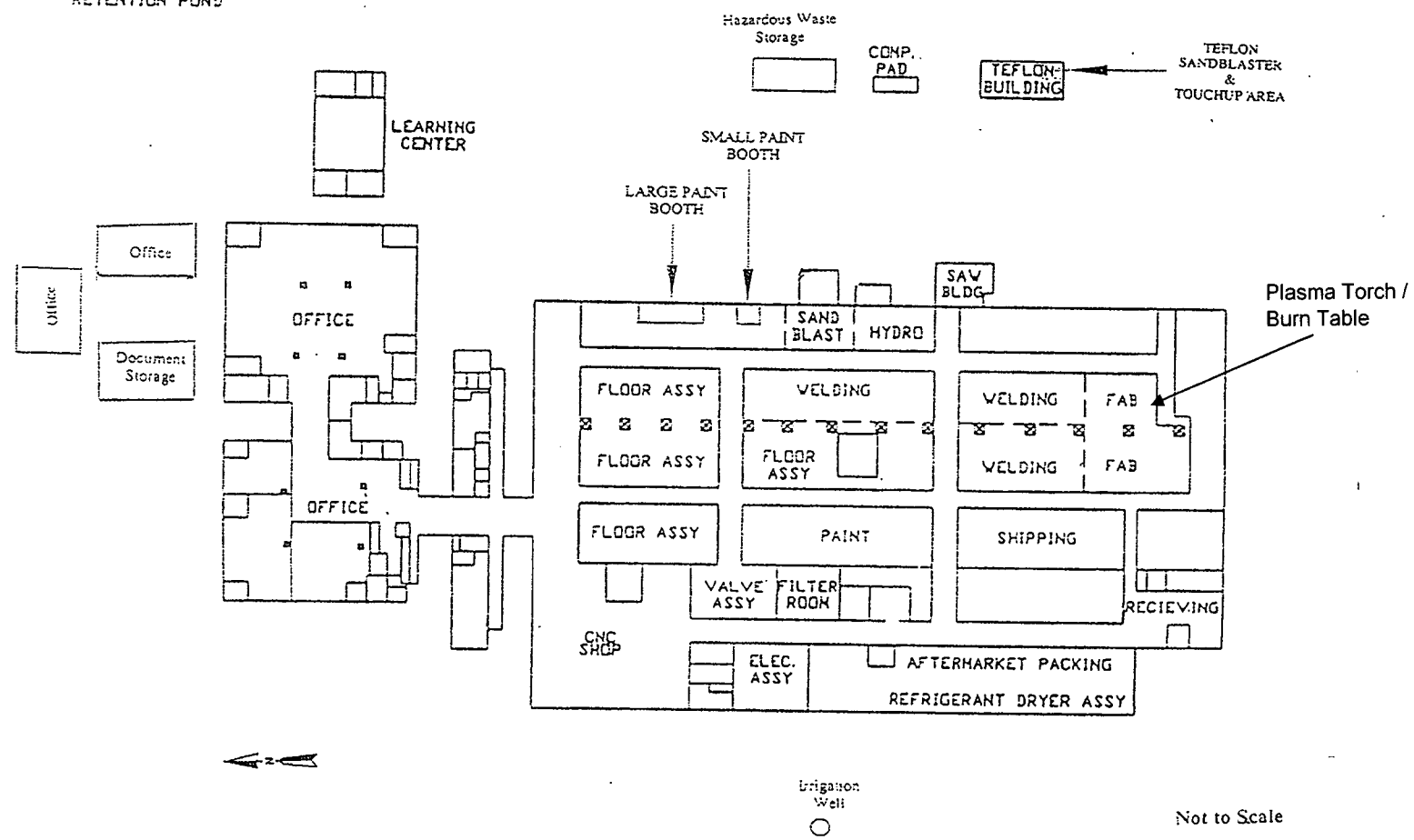
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8008 Corporate Center Drive, Suite 100
 Charlotte, North Carolina 28226

NORTHEASTERN
RETENTION POND

SOUTHEASTERN
RETENTION POND



Brigation
Well
○

Not to Scale

FIGURE 2 - FACILITY PLOT PLAN

SPX Dehydration and Process Filtration
4647 40th Ave
Ocala, FL

PROJECT NO: 5E0807192
DATE: 9/4/2008
SCALE: NTS
DRAWN BY: AU

DELTA
8008 Corporate Center Drive, Suite 100
Charlotte, North Carolina 28226

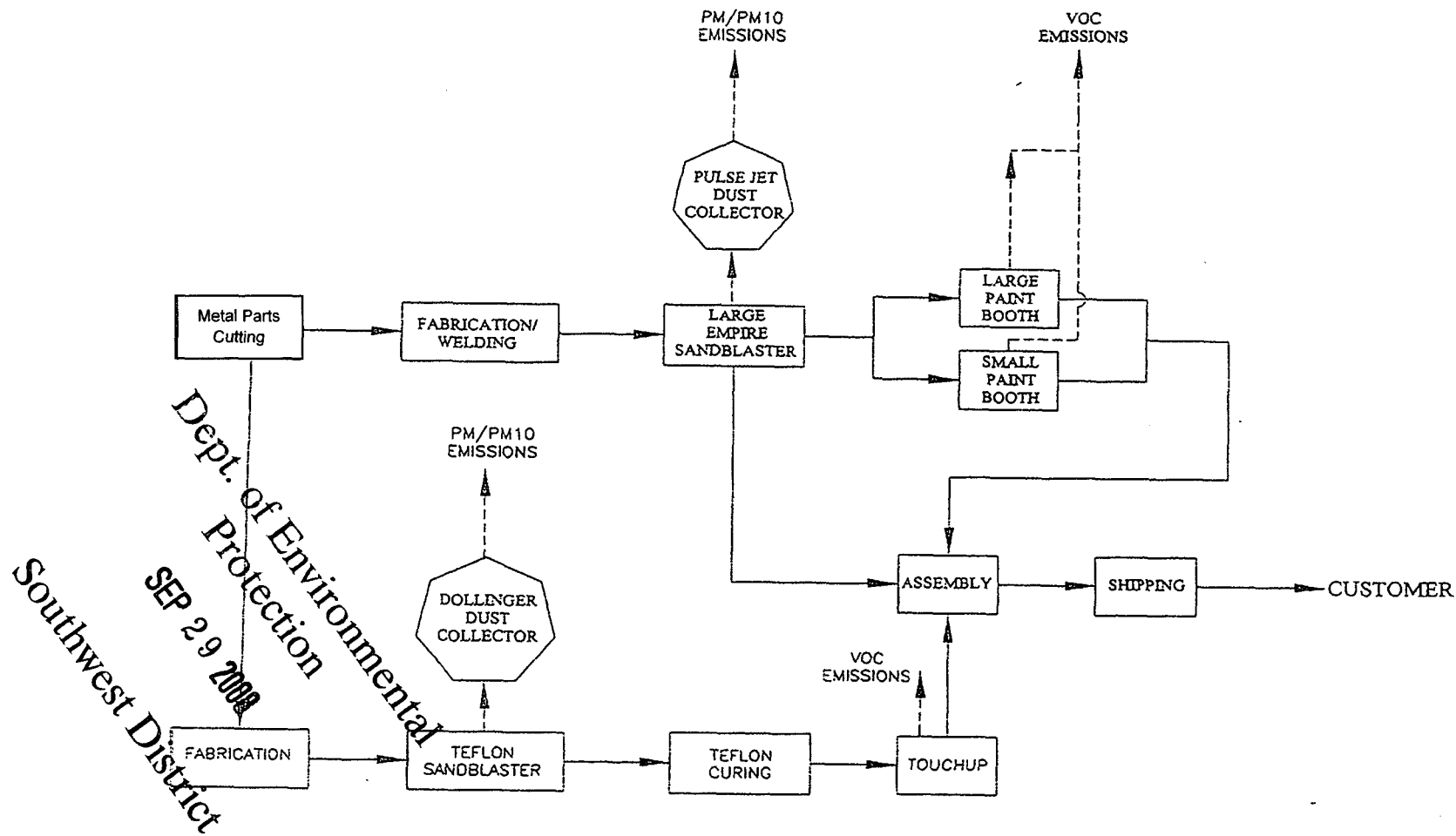


FIGURE 3 - SITE MAP

SPX Dehydration and Process Filtration
 4647 S.W. 40th Ave
 Ocala, FL

PROJECT NO: 5E0807192
 DATE: 9/4/2008
 SCALE: NTS
 DRAWN BY: AU


 8008 Corporate Center Drive, Suite 100
 Charlotte, North Carolina 28226

VOC and HAP Emissions Calculations - Spray Paint Booths (E.U. 001)
 SPX Dehydration and Process Filtration
 Ocala, Florida

VOC

Paint Booths

Emission Point	Process Description	Estimated Actual Paint Usage (gal)*	Total Operation Hours		VOC Emissions					
			Actual (hr/yr)	Potential (hr/yr)	Actual			Potential		
					lb/yr	lb/hr	tons/yr	lb/yr	lb/hr	tons/yr
Paint Booth Stack	Painting Metal	6,258	3,750	8,760	24,083	6.42	12.04	56,257	6.42	28.13
	Cleaning ²	330	250	8,760	2,204	8.82	1.10	77,242	8.82	38.62
Totals					26,287	15.24	13.14	133,500	15.24	66.75

* Data estimated from facility information. Methyl ethyl ketone is utilized for cleaning.

- Actual hours of operation estimated based on 16 hr/day, 5 day/wk and 50 wks/yr minus the total cleaning time (1 hr/day x 5 days/wk x 50 wk/yr).

Xylene

Paint Booths

Emission Point	Process Description	Estimated Actual Paint Usage (gal)*	Total Operation Hours		Xylene Emissions					
			Actual (hr/yr)	Potential (hr/yr)	Actual			Potential		
					lb/yr	lb/hr	tons/yr	lb/yr	lb/hr	tons/yr
Paint Booth Stack	Painting Metal	6,258	3,750	8,760	17,387	4.64	8.69	40,617	4.64	20.31
Totals					17,387	4.64	8.69	40,617	4.64	20.31

Ethylbenzene

Paint Booths

Emission Point	Process Description	Estimated Actual Paint Usage (gal)*	Total Operation Hours		Ethylbenzene Emissions					
			Actual (hr/yr)	Potential (hr/yr)	Proposed Actual			Potential		
					lb/yr	lb/hr	tons/yr	lb/yr	lb/hr	tons/yr
Paint Booth Stack	Painting Metal	6,258	3,750	8,760	1,541	0.41	0.77	3,599	0.41	1.80
Totals					1,541	0.41	0.77	3,599	0.41	1.80

Glycol Ethers

Paint Booths

Emission Point	Process Description	Estimated Actual Paint Usage (gal)*	Total Operation Hours		Glycol Ether Emissions					
			Actual (hr/yr)	Potential (hr/yr)	Actual			Potential		
					lb/yr	lb/hr	tons/yr	lb/yr	lb/hr	tons/yr
Paint Booth Stack	Painting Metal	6,258	3,750	8,760	937	0.25	0.47	2,189	0.25	1.09
Totals					937	0.25	0.47	2,189	0.25	1.09

VOC and HAP Emissions Calculations - Spray Paint Booths (E.U. 001)
SPX Dehydration and Process Filtration
Ocala, Florida

Summary

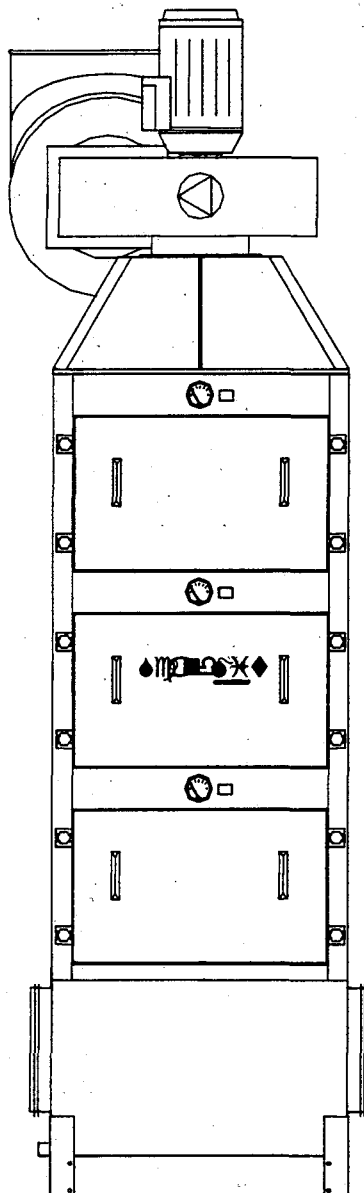
Emissions	Estimated Actual			Potential Emissions			Requested Permit Limits (tons/yr)
	lbs/hr	lbs/yr	tons/yr	lbs/hr	lbs/yr	tons/yr	
VOC	15.24	26,287	13.14	15.24	133,500	66.75	<67
Total Haps	14.11	22,069	11.03	14.11	123,646	61.82	<25
Ethylbenzene	0.41	1,541	0.77	0.41	3,599	1.80	<10
Glycol Ethers	0.25	937	0.47	0.25	2,189	1.09	
Xylene	4.64	17,387	8.69	4.64	40,617	20.31	

Notes:

- Assume 100% VOCs and HAPs are emitted. Assume cleaning of paint equipment takes 1 hour.
 - Estimated Actual Paint, Thinner or Cleaner Annual usage (gal/yr) = [Estimated Actual # gals used in 12 month span (2008)]
 - HAPs figures calculated using worst case paint.
 - Potential Paint usage (lb/yr) = [Actual Paint Usage (lb/yr) / Actual Paint (hr/yr)] x 8,760 hr/yr
 - Potential Paint Cleaner usage (lb/yr) = [Actual Paint Cleaner Usage (lb/yr) / Actual Paint Booth Operation (hr/yr)] x 8,760 hr/yr
 - Actual Emissions (lb/yr) = Actual Annual Usage (gal/yr) x Density (lb/gal) as applied x % pollutant (as applied)
 - Actual Emissions (lb/hr) = Actual Emissions (lb/yr) / Actual Operation Hours (hr/yr)
 - Potential Emissions (lb/yr) = Actual Emissions (lb/hr) x 8,760 hr/yr
- Paint booths operate an average of 16 hours per day.

Technical Manual

ScandMist MA 400D



Note. The Technical Manual belongs to the oilmistseparator ScandMist MA 100R & 200D and shall always be available to service personnel.

Postadress/Postal address	Säte/Registered office	Telefon/Telephone	Telefax/Facsimile
SCANDFILTER AB S-512 85 SVENLJUNGA SWEDEN	SVENLJUNGA SWEDEN	Nat. 0325-66 16 00 Int. +46-325-661600	Nat. 0325-61 14 90 Int. +46-325-611490

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<i>Postadress/Postal address</i>	<i>Site/Registered office</i>	<i>Telefon/Telephone</i>	<i>Telefax/Facsimile</i>
SCANDFILTER AB	SVENLJUNGA	Nat. 0325-66 16 00	Nat. 0325-61 14 90
S-512 85 SVENLJUNGA	SWEDEN	Int. +46-325-661600	Int. +46-325-611490
SWEDEN			

1. INTRODUCTION

ScandMist MA 400D is used to separate oil mist and water emulsions in different applications such as:

- ✓ Drilling
- ✓ Turning
- ✓ Milling
- ✓ Grinding

ScandMist MA is also separating solid particles like chips.

! *No one is allowed working with or performing service on ScandMist 400D without first reading and understanding this manual.*

1.1. FUNCTION AND DESCRIPTION

ScandMist MA 400D are built according to Picture 1. The different filters separate the polluted air in three stages:

Stage 1

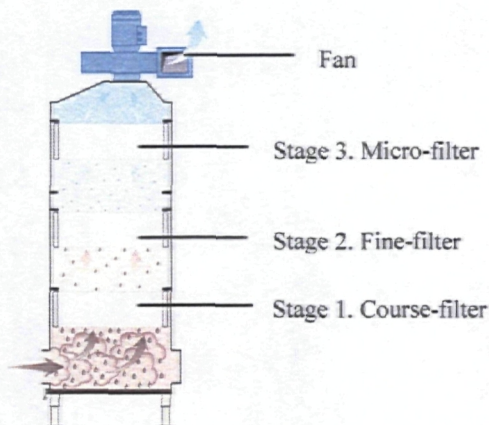
The polluted air first passes through filter 1 (course-filter). This consists of free draining filter media with high separation ability.

Stage 2

Filter 2, (fine-filter), consists of a free draining surface magnified filter media with a low charge for the separation of fine particles.

Stage 3

Filter 3. Micro-filter Intercept DP 99 (H13) is available as the final stage for high demands on filtration.



Picture no 1.



Picture no 2.

The built-on fan for ScandMist MA 400D is silent and brings back the clean air directly to the room or further on in a ductwork. The fans outlet shall be provided with a silencer.

The fluid, which is separated, drains out through a DN25 thread on the side of the ScandMist MA.

A difference pressure gauge for indication of the pressure drop over the respectively filter stages is mounted at the factory.

The filters are fastened in parallelograms with the help of the sent along tools, see picture 2.

Verify that all the filters are inserted against the separators back and that they are close to the upper level. **The filters shall be mounted with the gasket upwards.**

1.2 TECHNICAL DATA

	ScandMist MA 400D
Max. Air flow	1.1 m ³ /s 4000 m ³ /h
Pressure	2000 Pa
Motor	5.5 kW
Voltage	400 V
Amperage	10.3 A

Postadress/Postal address	Säte/Registered office	Telefon/Telephone	Telefax/Facsimile
SCANDFILTER AB S-512 85 SVENLJUNGA SWEDEN	SVENLJUNGA SWEDEN	Nat. 0325-66 16 00 Int. +46-325-661600	Nat. 0325-61 14 90 Int. +46-325-611490

2 SAFETY

! For function guarantee and safety we don't allow modifications or changes of the machine. **Warning! Never connect the ScandMist MA to explosive gases.**

2.1 SAFETY EQUIPMENT

When performing service or cleaning the machine you should use respiratory protective equipment and safety goggles.

2.2 MOUNTING

The machine is to be fastened with bolts in the floor when it is assembled. Use the stands if needed.

The machine must be turned off when performing service.

2.3 ELECTRICAL INSTALLATION

An authorised electrician shall do the electrical installation of the ScandMist. The machine shall be provided with a motor switch and a motor protector. Make sure that the fan rotates according to the direction of the arrow.

2.4 NOISE

The sound level of the ScandMist does not exceed 70 dB (A) with a silencer mounted.

2.5 SKIDDING RISK

The drained and separated oil from the machine should be collected in a bucket or similar. It is important that there is no leakage on the floor because of the skidding risk.

<i>Postadress/Postal address</i>	<i>Säte/Registered office</i>	<i>Telefon/Telephone</i>	<i>Telefax/Facsimile</i>
SCANDFILTER AB S-512 85 SVENLJUNGA SWEDEN	SVENLJUNGA SWEDEN	Nat. 0325-66 16 00 Int. +46-325-661600	Nat. 0325-61 14 90 Int. +46-325-611490

3 INSTALLATION / MOUNTING

3.1 DESCRIPTIONS

1. Place the ScandMist MA without blocking the inlet or the service door.
2. Bolt the ScandMist MA into the floor.
3. Use as short channels as possible when connecting the ScandMist MA.
Choose angles with large radius and short flexible tubing.
The metal tubes should be leak proof and the tubing oil resistant.
4. The branch pipe should be dimensioned for airflow of 10-15 m/s and the total area of the branch pipes as close to the connecting area of the ScandMist MA as possible.
5. Use a larger dimension of the ducts when connecting to the machine.
This to reduce chips and big drops from the process.
6. The duct system should be designed with a slight gradient back to the ScandMist MA or the process for an effective drainage.
7. The drainage in the bottom should be connected to the working machine or to a collecting vessel.
8. To avoid that the air is returns through the connection in wrong direction the drainage tube is equipped with a drain trap. This should have at least a 150 mm high column of oil.
9. The filters shall be mounted according to picture no 2 and the description on page 3.

3.2 ELECTRICAL INSTALLATION

An authorised electrician must perform the electrical installation.
It should be connected directly against the motor's connection box. The ScandMist MA should be equipped with a motor switch and a motor protector.
See chapter 1.2 for motor data.

4 COMMISSIONING

Check that all filter stages are properly connected. Also check that the tubes for drainage are tight.

<i>Postadress/Postal address</i>	<i>Säte/Registered office</i>	<i>Telefon/Telephone</i>	<i>Telefax/Facsimile</i>
SCANDFILTER AB S-512 85 SVENJUNGA SWEDEN	SVENJUNGA SWEDEN	Nat. 0325-66 16 00 Int. +46-325-661600	Nat. 0325-61 14 90 Int. +46-325-611490

5 OPERATION AND MAINTENANCE

! *No one is allowed working with or performing service on ScandMist 400D without first reading and understanding this manual.*

Always contact Scandfilter or your local dealer when you are uncertain of something.

5.1 FILTER 1. PRE-FILTER

Filter 1 can be washed in hot water maximum 60°C. Wash the filter with a gentle mixture of water based detergent solution and rinse it by flushing hot water from the clean side of the filter. Do not use high pressure; the filter can then be damaged. Let the filter get dry before mounting it back into the ScandMist MA. After a few washes the filter is consumed and must be changed to a new one. The filter can also be washed in a chamber washer with water based detergent solution.

The pre-filter is to be cleaned or replaced when reaching a pressure drop of 500 Pa.

5.2 FILTER 2. FINE-FILTER

The fine-filter is built in the same way as Filter 1 and is cleaned according to the same principle. The filter is to be replaced when reaching a pressure drop of 600 Pa.

5.3 MICRO-FILTER

The micro-filter, ScandSept DP99 (H13), is to be replaced when reaching a pressure drop of maximum 900 Pa. Not washable.

6 SPARE PARTS

For guaranteed function we only recommend using original spare parts. Always contact Scandfilter when having problems with service or reparations or when needing spare parts.

The ScandMist is enamelled with the colours Beige (MUN.5Y8/1) and Blue RAL 5017.

ScandMist MA 400D			
	Size	No.	Article no.
Filter 1	600x600	2	453.0001.005
Filter 2	600x600	2	453.0002.005
Micro filter	610x610	2	395.6637.301
Fan	45 kW	1	899.9999.000
Differential pressure gauge	0-1600Pa	3	325.4971.900

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