



0610021-009-AC
0610021-010-AV

Ocean Spray Cranberries, Inc.
925 74th Avenue, S.W., Vero Beach, FL 32968
(561) 562-0800, FAX (561) 562-1215

November 20, 2001

RECEIVED

NOV 26 2001

BUREAU OF AIR REGULATION

Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Attention: Clair H. Fancy, P.E.

Enclosed please find four copies of our application for an increase in the permitted operating hours of our feed mill dryer and pellet cooler to 3,737 hours/year.

If you have any questions about this application, please give me a call at 561-562-0800.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Brian Bogart".

Brian Bogart
EHS Manager

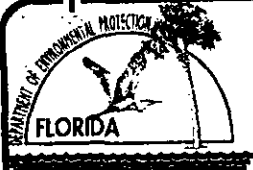
LETTER OF TRANSMITTAL

To:	Date: November 15, 2001
Brian Bogart	Project No.: 0104
Ocean Spray Cranberries, Inc,	
925 74th Avenue, S.W.	
Vero Beach, FL 32968-9702	

We are forwarding to you:		Permit Applications
Copies	Dated	Description
5	1/29/01	<p>Construction Permit Application Citrus Peel Dryer No. 2 & Pellet Cooler</p> <p>This application is for an increase in the permitted operating hours to 3737 hours/year.</p> <p>Please have Mark Smidebush sign and date all 5 copies. Send 4 copies to:</p> <p>Clair H. Fancy, P.E. Chief, Bureau of Air Regulation Division of Air Resources Management FL. Dept. Of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400</p> <p>Keep 1 copy for your records.</p> <p>Bottorf Associates, Inc. appreciates your business and looks forward to working with you in the near future.</p>
These are transmitted: As requested.		

Copies To:

By: Roger T. Caldwell
Roger T. Caldwell, Vice President
Environmental Division



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: OCEAN SPRAY CRANBERRIES, INC.	
2. Site Name: VERO BEACH FACILITY	
3. Facility Identification Number: 0610021	<input type="checkbox"/> Unknown
4. Facility Location: Street Address or Other Locator: 925 74th AVENUE, SOUTHWEST City: VERO BEACH County: INDIAN RIVER Zip Code: 32968-9702	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Name and Title of Application Contact: ROGER T. CALDWELL, V.P. ENVIRONMENTAL DIVISION	
2. Application Contact Mailing Address: Organization/Firm: BOTTORF ASSOCIATES, INC. Street Address: 6729 EDGEWATER COMMERCE PKWY. City: ORLANDO State: FL. Zip Code: 32810-4278:	
3. Application Contact Telephone Numbers: Telephone: (407)298-0846 Fax: (407)299-7053	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	12-26-01
2. Permit Number:	0610021-004-AC 0610021-010-AC
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

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

- Initial Title V air operation permit for an existing facility which is classified as a Title V source.
- Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: _____

- Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit number to be revised: _____

- Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: 0610021-007-AV

- Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: _____

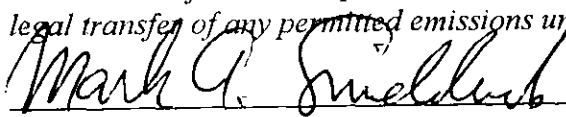
Reason for revision: _____

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 or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: MARK SMIDEBUSH, PLANT MANAGER
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: OCEAN SPRAY CRANBERRIES, INC. Street Address: 925 74th AVENUE, SOUTHWEST City: VERO BEACH State: FL Zip Code: 32968-9702
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (561)562-0800 Fax: (561)562-1215
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this application, whichever is applicable. 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>11/20/01</u>

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: LARRY G. STUART, P.E. Registration Number: 50660
2. Professional Engineer Mailing Address: Organization/Firm: BOTTORF ASSOCIATES, INC. Street Address: 6729 EDGEWATER COMMERCE PKWY. City: ORLANDO State: FL. Zip Code: 32810-4278
3. Professional Engineer Telephone Numbers: Telephone: (407)298-0846 Fax: (407)299-7053

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 [X], 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 [X], 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: *John Stewart*

Date: 11/16/01

(seal)

* Attach any exception to certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

THIS PROJECT IS FOR A CONSTRUCTION PERMIT TO INCREASE THE PERMITTED HOURS OF OPERATION FOR THE CITRUS PEEL DRYER NO. 2 AND THE PELLET COOLER FROM 3528 HOURS PER YEAR TO 3737 HOURS PER YEAR. THIS INCREASE IN OPERATING HOURS WILL INCREASE THE POTENTIAL VOC EMISSIONS BY 39 TONS PER YEAR. THIS INCREASE IN THE HOURS OF OPERATION WILL NOT TRIGGER A PSD REVIEW.

2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

Application Comment

THIS APPLICATION IS ALSO FOR AN AMENDMENT TO THE TITLE V PERMIT, TO INCLUDE THESE CHANGES.

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input checked="" type="checkbox"/> Title V Source by EPA Designation?	
Facility Regulatory Classifications Comment (limit to 200 characters):	

List of Applicable Regulations

STATE (TITLE V CORE LIST)	
62-4	
62-204	
62-210	
62-213	
62-256	
62-257	
62-281	
62-296	
62-297	

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	A				
CO	SM				
SO2	SM				
PM	SM				
NOX	SM				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location:
 Attached, Document ID: _____ Not Applicable Waiver Requested

2. Facility Plot Plan:
 Attached, Document ID: _____ Not Applicable Waiver Requested

3. Process Flow Diagram(s):
 Attached, Document ID: _____ Not Applicable Waiver Requested

4. Precautions to Prevent Emissions of Unconfined Particulate Matter:
 Attached, Document ID: _____ Not Applicable Waiver Requested

5. Fugitive Emissions Identification:
 Attached, Document ID: _____ Not Applicable Waiver Requested

6. Supplemental Information for Construction Permit Application:
 Attached, Document ID: _____ Not Applicable

7. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

<p>8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable</p>
<p>10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable</p>
<p>14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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
 (All Emissions Units)**

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)
- 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).
 - 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.
 - 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. Regulated or Unregulated Emissions Unit? (Check one)
- The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
 - The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Description of Emissions Unit Addressed in This Section (limit to 60 characters):
CITRUS PEEL DRYER NO. 2

4. Emissions Unit Identification Number: No ID
 ID: **006** IDUnknown

5. Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 20	8. Acid Rain Unit? <input type="checkbox"/>
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9. Emissions Unit Comment: (Limit to 500 Characters)

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
WASTE HEAT EVAPORATOR WITH SCRUBBER TYPE WATER SPRAY NOZZLES.

2. Control Device or Method Code(s): **002**

Emissions Unit Details

1. Package Unit:		
Manufacturer:	GUMACO	Model Number: 9040
2. Generator Nameplate Rating: MW.		
3. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	70	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	36 TONS/HOUR INPUT	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:	24 hours/day	7 days/week
	39 weeks/year	3737 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? WHE STACK		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: THIS EMISSION UNIT SHARES THE WASTE HEAT EVAPORATOR AND STACK OF THE DRYER NO. 1, HOWEVER THEY CAN NOT OPERATE SIMULTANEOUSLY. THE DRYER NO. 1 IS USED AS A BACK-UP TO THIS DRYER NO. 2.			
5. Discharge Type Code: W	6. Stack Height: 60 feet	7. Exit Diameter: 2.8 feet	
8. Exit Temperature: 155 °F	9. Actual Volumetric Flow Rate: 27,271 acfm	10. Water Vapor: 30.00 %	
11. Maximum Dry Standard Flow Rate: 16,761 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 550.000 North (km): 3051.000			
14. Emission Point Comment (limit to 200 characters):			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): PRESSED WET CITRUS PEEL INPUT TO THE DRYER		
2. Source Classification Code (SCC): 3-02-999-98		3. SCC Units: TONS PROCESSED
4. Maximum Hourly Rate: 36.00	5. Maximum Annual Rate: 127,008.00	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): NATURAL GAS - IN PROCESS FUEL		
2. Source Classification Code (SCC): 3-02-900-03		3. SCC Units: MILLION CUBIC FEET BURNED
3. Maximum Hourly Rate: 0.07	4. Maximum Annual Rate: 261.6	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1025
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section 1 of 2

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): NO. 2 DISTILLATE FUEL OIL - IN PROCESS FUEL		
5. Source Classification Code (SCC): 3-02-900-01		3. SCC Units: THOUSAND GALLONS BURNED
6. Maximum Hourly Rate: 0.50725	7. Maximum Annual Rate: 1,265.49	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.50	8. Maximum % Ash:	10. Million Btu per SCC Unit: 138
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC			EL
CO			EL
SO2			EL
PM	002		EL
NOX			EL

Emissions Unit Information Section 1 of 2

Pollutant Detail Information Page 1 of 5

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 374.63 lb/hour 700.00 tons/year		4. Synthetically Limited? [Y]	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: Reference: MATERIAL BALANCE		7. Emissions Method Code: 2	
8. Calculation of Emissions (limit to 600 characters): VOC = (1700 BOX'S/HR X 85 LBS/BOX / 2000LBS/TON) X (6.1 LBS OIL/TON FRUIT X 0.85 FACTOR OF TOTAL OIL-15% OIL IN PRODUCT) = 374.63 LBS/HR. 374.63 LBS/HR X 3737 HOURS/YEAR / 2000 LBS/TON = 700.00 TONS/YEAR			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): AT THIS TIME WE DO NOT REQUEST A LIMIT FOR VOC EMISSIONS. THE PHYSICAL LIMIT FROM THE BOTTLENECK AND THE PERMIT LIMIT OF 3737 HOURS PER YEAR WILL LIMIT VOC EMISSIONS TO THE POTENTIAL SHOWN ABOVE.			

Emissions Unit Information Section 1 of 2

Pollutant Detail Information Page 2 of 5

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 48.08 lb/hour 89.85 tons/year		4. Synthetically Limited? [Y]	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 to tons/year			
6. Emission Factor: 1.33567 LBS/TON OF PRESSED WET PEEL Reference: 1/31/97 STACK TEST		7. Emissions Method Code: 1	
8. Calculation of Emissions (limit to 600 characters): CO = 1.33567 LBS/TON WET PEEL X 36 TONS/HR = 48.08 LBS/HOUR 48.08 LBS/HR X 3737 HRS/YR X 1/2000 = 89.85 TONS/YR			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): NO LIMIT REQUESTED			

Emissions Unit Information Section 1 of 2

Pollutant Detail Information Page 3 of 5

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units -
 Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: 90.00
3. Potential Emissions: 17.3 lb/hour 32.32 tons/year	4. Synthetically Limited? [Y]
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): PM = ALLOWABLE LIMIT IN CURRENT PERMIT = 17.30 LBS/HR 17.30 LBS/HR X 3737 HRS/YR X 1/2000 = 32.32 TONS/YR	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 17.30 LBS/HOUR	4. Equivalent Allowable Emissions: 17.30 lb/hour 32.32 tons/year
5. Method of Compliance (limit to 60 characters): EPA METHOD 5 TEST	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): REQUESTED BY THE APPLICANT TO REDUCE THE ANNUAL TITLE V LICENSE FEES.	

Emissions Unit Information Section 1 of 2

Pollutant Detail Information Page 4 of 5

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SO2		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 36.01 lb/hour 44.93 tons/year		4. Synthetically Limited? [Y]	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 to tons/year			
6. Emission Factor: 71 LBS/1000 GALLONS Reference: AP42		7. Emissions Method Code: 4	
8. Calculation of Emissions (limit to 600 characters): SO2 = 0.50725 KGAL/HR X 71 LBS/KGAL = 36.01 LBS/HR SO2 = 1265.494 KGAL/YR X 71 LBS/KGAL X 1/2000 = 44.93 TONS/YR			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER		2. Future Effective Date of Allowable Emissions:	
4. Requested Allowable Emissions and Units: 0.5 % SULFUR IN OIL		4. Equivalent Allowable Emissions: 36.01 lb/hour 44.92 tons/year	
5. Method of Compliance (limit to 60 characters): FUEL OIL ANALYSIS PROVIDED BY THE SUPPLIER			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): REQUESTED BY THE APPLICANT TO REDUCE THE ANNUAL TITLE V LICENSE FEES.			

Emissions Unit Information Section 1 of 2

Pollutant Detail Information Page 5 of 5

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: NOX		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 10.15 lb/hour 12.66 tons/year		4. Synthetically Limited? [Y]	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: 20 Reference: AP42		7. Emissions Method Code: 4	
8. Calculation of Emissions (limit to 600 characters): NOX = 0.50725 KGAL/HR X 20 LBS/KGAL = 10.15 LBS/HR NOX = 1265.494 KGAL/YR X 20 LBS/KGAL X 1/2000 = 12.66 TONS/YR			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): NO LIMIT REQUESTED			

H. VISIBLE EMISSIONS INFORMATION
 (Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA METHOD 9 TEST	
5. Visible Emissions Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
 (Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[] Rule [] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

<p>11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>15. Acid Rain Part Application (Hard-copy Required)</p> <p><input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____</p> <p><input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____</p> <p><input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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
(All Emissions Units)**

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)			
<input checked="" 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 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. Regulated or Unregulated Emissions Unit? (Check one)			
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.			
<input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
Description of Emissions Unit Addressed in This Section (limit to 60 characters):			
PELLET COOLER			
4. Emissions Unit Identification Number:		<input type="checkbox"/> No ID <input type="checkbox"/> IDUnknown	
ID: 005			
5. Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 20	8. Acid Rain Unit? <input type="checkbox"/>
9. Emissions Unit Comment: (Limit to 500 Characters)			

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	13.8 TONS/HOUR	
4. Maximum Production Rate:	13.8 TONS/HOUR	
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	39 weeks/year	3737 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

List of Applicable Regulations

STATE (TITLE V CORE LIST)	
62-4	
62-204	
62-210	
62-213	
62-256	
62-257	
62-281	
62-296	
62-297	

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? CYCLONE		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: W	6. Stack Height: 36 feet	7. Exit Diameter: 3.2 feet	
8. Exit Temperature: 132 °F	9. Actual Volumetric Flow Rate: 11500 acfm	10. Water Vapor: 2.84 %	
11. Maximum Dry Standard Flow Rate: 10350 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 550.00 North (km): 3051.00			
14. Emission Point Comment (limit to 200 characters):			

Emissions Unit Information Section 2 of 2

**E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)**

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): PELLETS COOLED		
5. Source Classification Code (SCC): 3-02-008-06		3. SCC Units: TON PROCESSED
4. Maximum Hourly Rate: 13.8	5. Maximum Annual Rate: 48,686	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section 2 of 2

Pollutant Detail Information Page 1 of 2

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control: 80	
3. Potential Emissions: 15.00 lb/hour 28.03 tons/year		4. Synthetically Limited? [Y]	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 to tons/year			
6. Emission Factor: Reference: SET TO ALLOWABLE		7. Emissions Method Code: 0	
8. Calculation of Emissions (limit to 600 characters): PM = ALLOWABLE LIMIT IN CURRENT PERMIT = 15.00 LBS/HR 15.00 LBS/HR X 3737 HRS/YR X 1/2000 = 28.03 TONS/YR			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: OTHER		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: 15.00 LBS/HR		4. Equivalent Allowable Emissions: 15.00 lb/hour 28.03 tons/year	
5. Method of Compliance (limit to 60 characters): EPA METHOD 5			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): REQUESTED BY APPLICANT TO REDUCE TITLE V ANNUAL LICENSE FEES.			

Emissions Unit Information Section 2 of 2

Pollutant Detail Information Page 2 of 2

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:
3. Potential Emissions: 21.75 lb/hour 40.64 tons/year	4. Synthetically Limited? [Y]
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 1.5759 LBS/TON Reference: 4/21/99 STACK TEST	7. Emissions Method Code: 1
8. Calculation of Emissions (limit to 600 characters): VOC = 13.8 TONS/HR X 1.5759 LBS/TON = 21.75 LBS/HR 21.75 LBS/HR X 3737 HRS/YR X 1/2000 = 40.64 TONS/YR	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): THE 700 TON/YEAR POTENTIAL VOC EMISSION CALCULATION FOR CITRUS PEEL DRYER NO. 2 INCLUDES THIS 40.64 TONS. THE 700 TONS/YEAR POTENTIAL VOC EMISSION INCLUDES ALL VOC EMISSIONS FROM THE PROCESSING OF ALL THE GRAPEFRUIT AT THIS FACILITY.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): NO LIMIT REQUESTED	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

<p>11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
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<p>14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>15. Acid Rain Part Application (Hard-copy Required)</p> <p><input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____</p> <p><input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____</p> <p><input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____</p> <p><input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>

OCEAN SPRAY CRANBERRIES, INC.
CITRUS PEEL DRYER NO. 2
POTENTIAL EMISSIONS ON NO. 2 DISTILLATE FUEL OIL
 BASED ON AP-42 5TH EDITION EMISSION FACTORS FOR DISTILLATE FUEL OIL COMBUSTION, EXCEPT PM, CO, AND VOC

FUEL TYPE	NEW NO. 2 FUEL OIL
MAXIMUM INPUT PROCESS RATE TO THE DRYER OF PRESSED WET PEEL (TONS/HR) (BASED ON THE MANUFACTURER, NOT OTHER FACILITY BOTTLENECKS)	36
MAXIMUM OPERATING TIME (HRS/YR)	3737
MAXIMUM FUEL SULFUR CONTENT (%)	0.5
MAXIMUM HEAT INPUT (MMBTU/HR)	70
MAXIMUM NO. 2 FUEL OIL RATE (GAL/HR)	507.25
MAXIMUM NO. 2 FUEL OIL USAGE (GAL/YEAR)	1265494

POLLUTANT	EMISSION FACTOR	SOURCE OF EMISSION FACTOR	EMISSION FACTOR UNITS	EMISSION RATE (LBS/HR)	EMISSION RATE (TONS/YEAR)
ALLOWABLE PARTICULATE (PM)	N/A	N/A	N/A	17.30	32.325
SULFUR DIOXIDE (SO ₂)	71	AP42 TABLE 1.3-2	LBS/1000 GAL	36.014	44.925
NITROGEN OXIDES (NOX)	20	AP42 TABLE 1.3-2	LBS/1000 GAL	10.145	12.655
CARBON MONOXIDE (CO)	1.33567	STACK TEST ON THIS UNIT ON 1-31-97	LBS/WET TON INPUT	48.084	89.845
VOC (As calculated per Clair Fancy 10/15/99 memo) (1700 Box's/hr.max X 3737 hours/yr. X (85 lbs/box/2000) X (0.00305 tons oil/ton fruit X 0.85) (Note: 0.85 is for the 15% of the oil left in the pellets)	N/A	N/A	N/A	374.630	700.000
VOC (NONMETHANE) (AS PROPANE)	3.2181	STACK TEST ON THIS UNIT ON 1-31-97	LBS/WET TON INPUT	115.852	216.469
PARTICULATE <10 UM (PM10)	1.08	AP42 TABLE 1.3-8	LBS/1000 GAL	0.548	1.024

The 700 ton/year potential VOC emission does not account for any oil recovery.
 This facilities bottleneck is the evaporation capacity. This bottleneck limits production to 1700 Box's per hour.
 This facilities processes only grapefruit. Grapefruit has 0.00305 tons oil per ton fruit. Grapefruit weighs 85 lbs/box.
 Potential VOC emissions prior to this increase in operating hours are 661 tons/year. This is a 39 ton/yr. Increase.

TABLE I
VOC PTE TABLE

OSC & Hercules
Historical Analysis

FISCAL YEAR	Note	BOXES PROCESSED	Capacity (Boxes/Hour)	Bottleneck	Total Oil Recovered (tons/yr) (Note 6)	Calc PTE based on 3528 hours per year (Note 5)	Calc Actual Emissions based on recovered oil. (tons/yr) (Note #7)	PTE Emission Increase (TONS/yr)	PTE Minus Actual Average for Last 2 years (TONS/yr)
						(TONS/yr.)			
80	1	2,724,536	1,160	Evaporation	68.58	451	242		
81		2,218,241	1,160	Evaporation	55.84	451	197	-	
82		2,458,891	1,160	Evaporation	59.11	451	221	-	
83		2,008,907	1,160	Evaporation	52.63	451	177	-	
84		2,540,348	1,160	Evaporation	86.38	451	206	-	
85		2,630,082	1,160	Evaporation	98.32	451	206	-	
86	2	3,342,173	1,460	Evaporation	98.33	568	285	117	361
87	3	3,682,918	1,576	Evaporation	162.56	613	268	45	367
88		2,681,300	1,576	Evaporation	146.22	613	171	-	
89		3,133,736	1,275	Evaporation	197.88	496	177	(117)	
90		2,713,049	1,275	Evaporation	159.59	496	163	-	
91		2,660,993	1,275	Evaporation	125.99	496	186	-	
92		2,538,621	1,275	Evaporation	115.55	496	181	-	
93	4	4,023,450	1,275	Evaporation	187.91	496	284	-	
94		3,821,879	1,700	Evaporation	170.17	661	276	165	428
95		4,399,223	1,700	Evaporation	209.08	661	307	-	
96		4,305,171	1,700	Evaporation	217.24	661	290	-	
97		4,461,990	1,700	Evaporation	207.61	661	315	-	
98		4,388,224	1,700	Evaporation	130.04	661	373	-	
99		4,472,333	1,700	Evaporation	260.07	661	272	-	
TOTALS		65,206,065							

Note *Comment*

- 1 *This plant's capacity has always been defined by its evaporation capacity, and from 1980 - 1985, total evaporation consisted of a 15,000 lb/hr and 30,000 lb/hr TASTE evaporator.*
- 2 *From 1986 - 1988, a Grenco freeze evaporator was also run at this facility in addition to the two TASTE evaporators. This unit ran sporadically, but had a capacity of 300 boxes per hour. This unit was removed following the 1988 season.*
- 3 *In 1987, modifications were made to the two TASTE evaporators to add approximately 10% additional evaporation capacity.*
- 4 *After fiscal year 1993, the Hercules TASTE evaporator that had been used in their operation to concentrate sugar water that had been removed from the peel, was converted to an Ocean Spray - operated 15,000 lb/hr juice evaporator. This effectively increased Ocean Spray's production capacity by a third to 1700 boxes/hr.*
- 5 *Per Clair Fancy, Chief, Bureau of Air Regulation DEP (10/15/99 memo), OSC has not taken credit for peel oil and d'limonene product streams in the PTE calculations despite the fact that their collection is an integral part of OSC's grapefruit processing operation. If credit were taken, it would substantially reduce the tons VOC in the PTE calculation. PTE calculation as per Clair Fancy's 10/15/99 memo.*
- 6 *Total oil recovered is the sum of the peel oil, d-limonene, and essence oil data summarized on Table II.*
- 7 *Actual Emissions = Total Available Oil less total oil recovered, allowing for 15% oil remaining in pellets.*

Ocean Spray Cranberries

Major Modifications that Resulted in Significant Net Emissions Increases

1. In 1985, a Grenco Freeze Concentrator was installed at this facility. This concentrator had the capacity to run approximately 300 boxes per hour through it. This concentrator was run sporadically for the 1986 – 1988 processing seasons. During this time, the net hourly box per hour capacity of the entire facility was increased by these 300 boxes.
2. In 1987, the two existing TASTE juice evaporators at this facility were pressurized and upgraded. It is believed that these modifications may have increased the evaporation capacity of this facility by approximately 10%, or 116 boxes per hour.
3. In 1993, a third TASTE evaporator, owned by Hercules, was converted by Ocean Spray to a juice evaporator. Hercules had previously used this evaporator in their pectin operation to evaporate sugar water. This modification increased the juice evaporation capacity of the Ocean Spray facility by about one third, or 425 boxes per hour to the 1700 box per hour capacity that exists today.

Ocean Spray believes that the modifications listed above are the only major modifications that increased the capacity of this facility and thus resulted in increases in the potential to emit VOCs. The numerical data that supports this is presented in the **VOC PTE Table**.

It is important to note that the bottleneck for this facility is and always has been juice evaporation capacity. The facility is designed so that all equipment upstream of the evaporators, such as fruit receiving, extraction, etc. has sufficient capacity to fully supply the evaporators. In addition, all downstream equipment is designed to handle greater capacities than that of the evaporators.

Note: The information supplied above was derived from interviews with long time employees of Ocean Spray and Hercules. A search of available records was undertaken and an equipment supplier was solicited for historical records. Some of the dates listed are approximated and the actual dates may differ slightly. Complete records were not available dating back to 1980. In addition, plant capacities are also estimated. Capacity is defined by hourly units (boxes/hour) in order to eliminate the effects of clean-up and maintenance downtime.

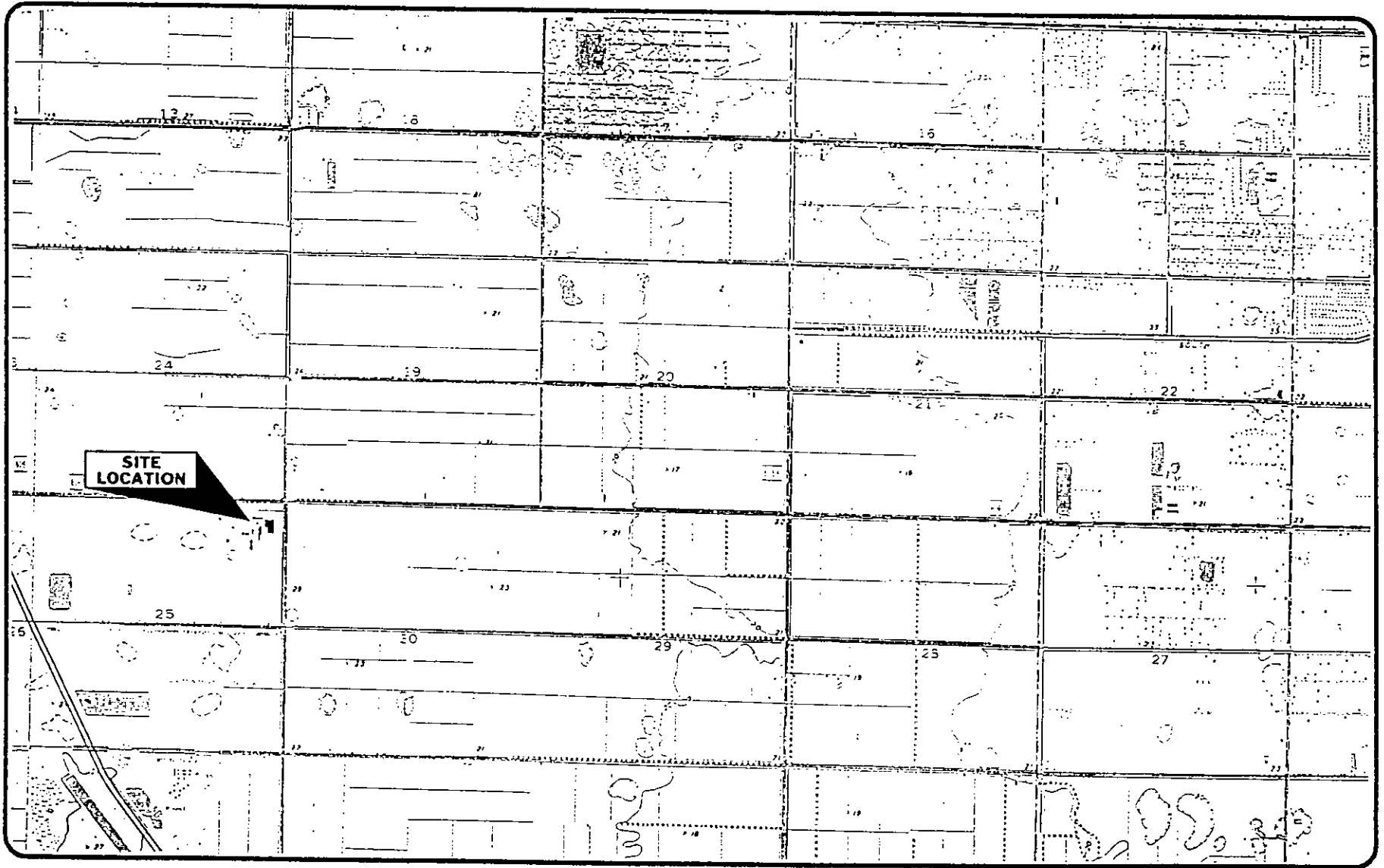
Ocean Spray Cranberries

Other Major Modifications with no Effect on VOC Potential to Emit

1. In 1985, a second extraction line was installed to support the Grenco Freeze Concentrator that was installed at this time. The additional extractors were added to ensure sufficient fruit flow to the new concentrator. Evaporation continued to define the plant throughput capacity. The total number of extractors went from 15 in the 84/85 processing season to 24 for the 85/86 season. It was then determined that this was more extraction capacity than necessary to support Grenco, and the total number of extractors was decreased to 21 for the 86/87 season, then to 19 for the 87/88 season, and finally down to 14 for 88/89 when Grenco was finally removed. The total number of extractors at Ocean Spray has remained at 14 ever since then.
2. In 1993, the pellet cooler in the feedmill was replaced. This did not affect the VOC potential to emit.
3. In 1995, the waste heat evaporator was upgraded. This did not affect the VOC potential to emit.
4. In 1996, the three boilers and one citrus peel dryer were converted from using No. 6 fuel (1% sulfur max) to natural gas as the main fuel and No. 2 fuel (0.5% sulfur max) as the back-up. Potential VOC emissions from these units remained unchanged.
5. In 1996, a 40,000 pound/hour citrus peel dryer was installed. The 40K dryer was a replacement to the 30K dryer that remained on site as a back-up to the new dryer. This did not affect the VOC potential to emit because the 30 K dryer was not a bottleneck. The box throughput capacity of the plant, as determined by evaporator capacity, was less than the design capacity and permitted capacity of the 30K dryer.

There have literally been hundreds of projects and modifications that have taken place at the Ocean Spray and Hercules facilities over the last 20 years. It is unrealistic and impractical to list them all here. I have listed a couple of the larger ones that are more closely related to emissions or facility capacity. For PSD applicability purposes, we only considered those modifications that increased plant capacity, and thus potential to emit. This plant has been a grapefruit processing facility for this entire time; therefore the total available oil factor has not changed due to fruit variety.

Note: The information supplied above was derived from interviews with long time employees of Ocean Spray and Hercules. A search of available records was undertaken and an equipment supplier was solicited for historical records. Some of the dates listed are approximated and the actual dates may differ slightly. Complete records were not available dating back to 1980. In addition, plant capacities are also estimated. Capacity is defined by hourly units (boxes/hour) in order to eliminate the effects of clean-up and maintenance downtime.



LOCATION MAP

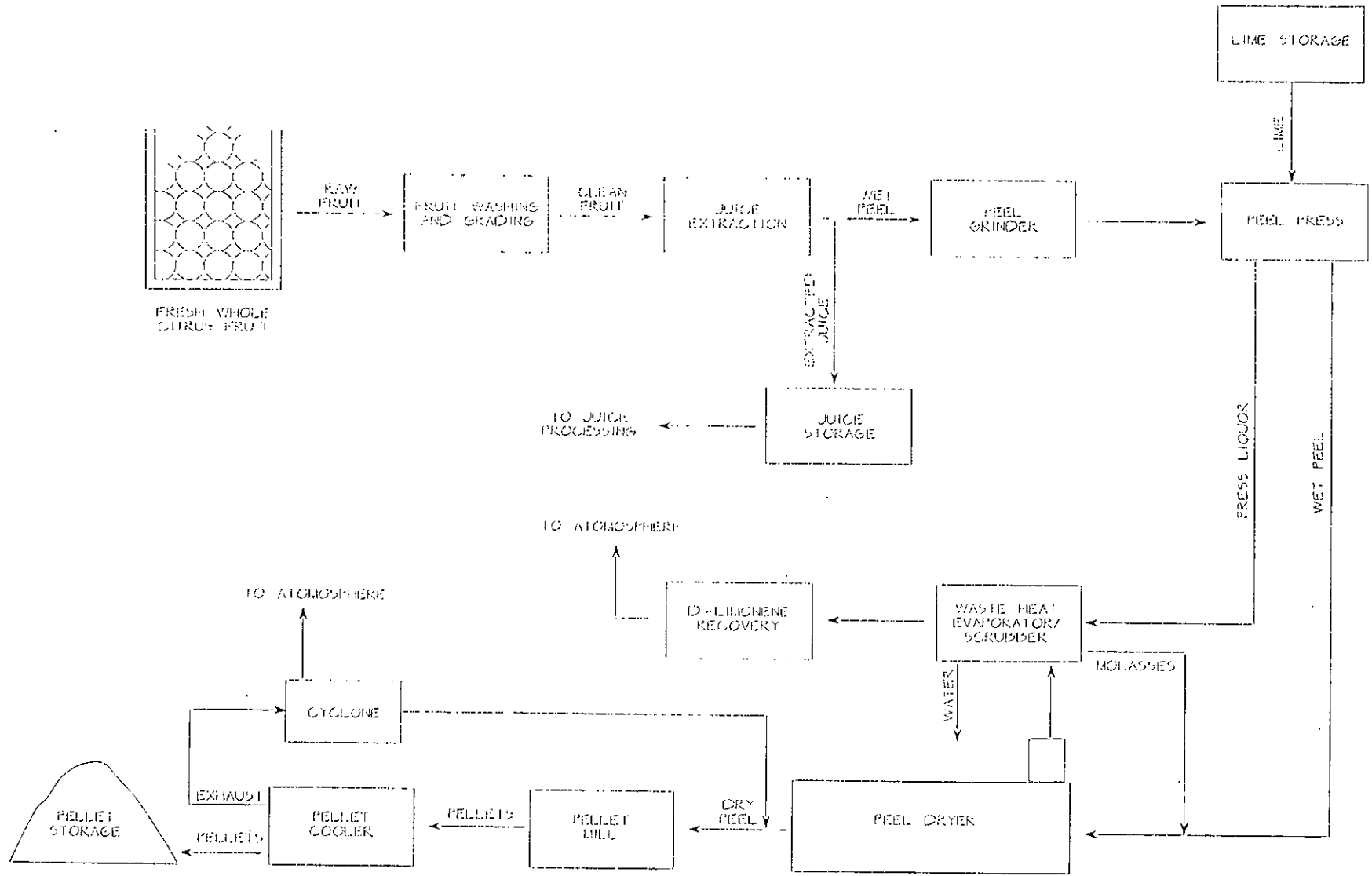
ROTTORF
Associates Inc.
 CONSULTING ENGINEERS-ANALYTICAL LABORATORY
 1728 E. COVINGTON BLVD. PALM BEACH, FLORIDA 33480-1278
 PHONE: (561) 896-2666

OCEAN SPRAY CRANBERRIES, INC.
 VERO BEACH, INDIAN RIVER COUNTY, FLORIDA

USGS MAP:	OSLO, FLA.
DATE:	5/9/96
SCALE:	1 IN = 2000 FT

104

PROJECT NO



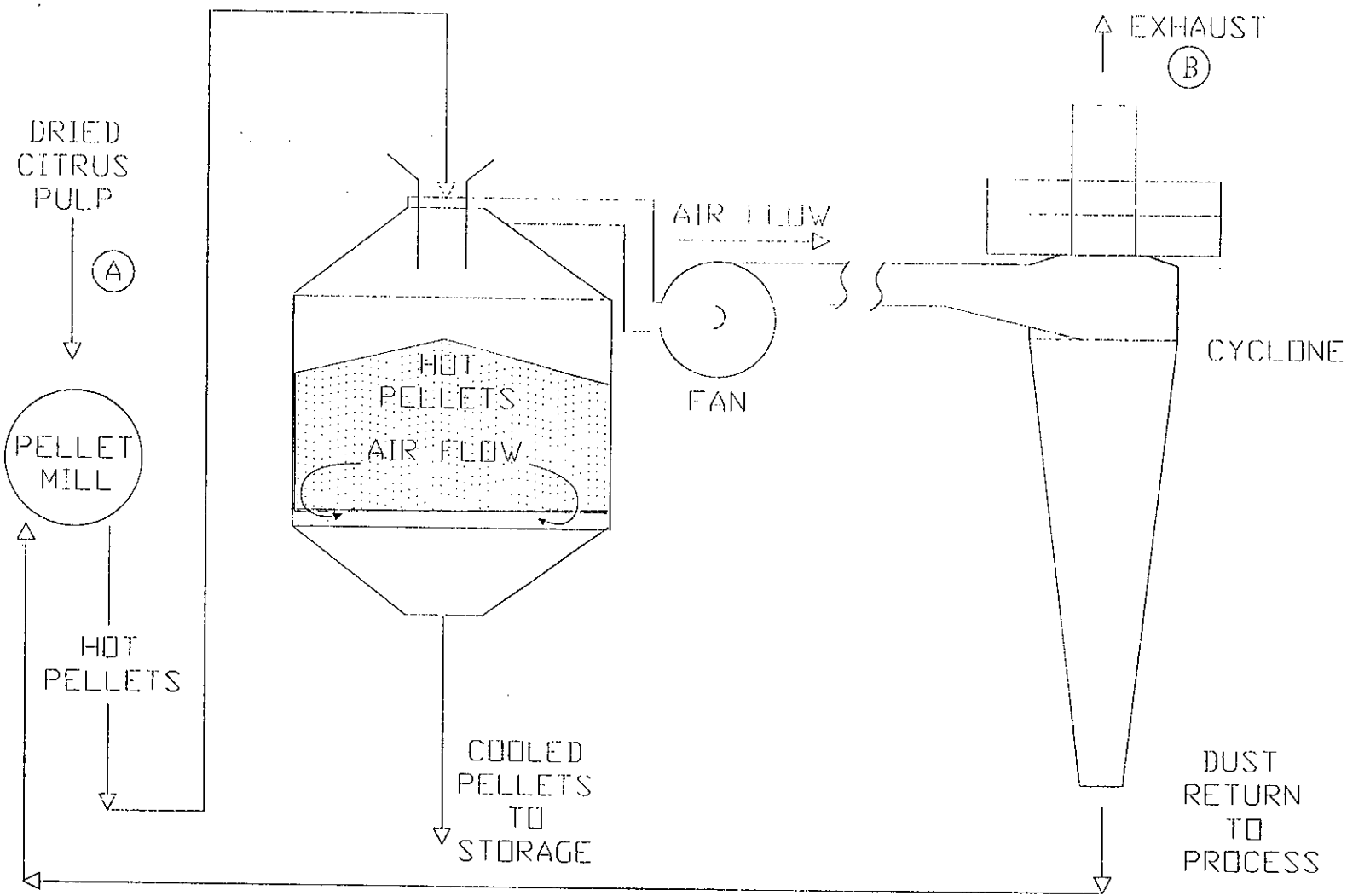
PROCESS FLOW DIAGRAM

BOTTORF
Associates Inc.
 CONSULTING ENGINEERS-ANALYTICAL LABORATORY
 6729 EDgewater Commerce Parkway, Orlando, Florida 32810-4278
 Phone: (407) 298-0415

Ocean Spray Cranberries, Inc.
Vero Beach, Indian River County, Florida

DATE	REVISION

DRAWN BY: KDB	DATE: 5/28/90	104-1 PROJECT NO
REVIEWED BY: KTC	VERSION: 10/200	
SCALE: NS	FILENAME: F1040104	



FLOW DIAGRAM

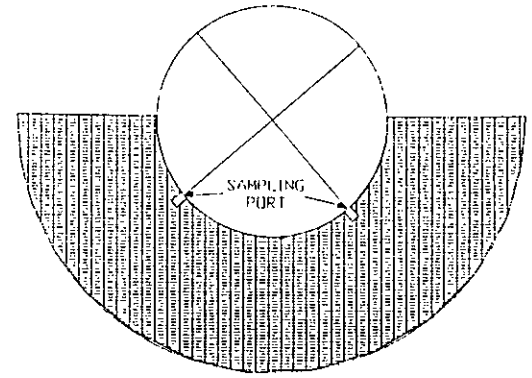
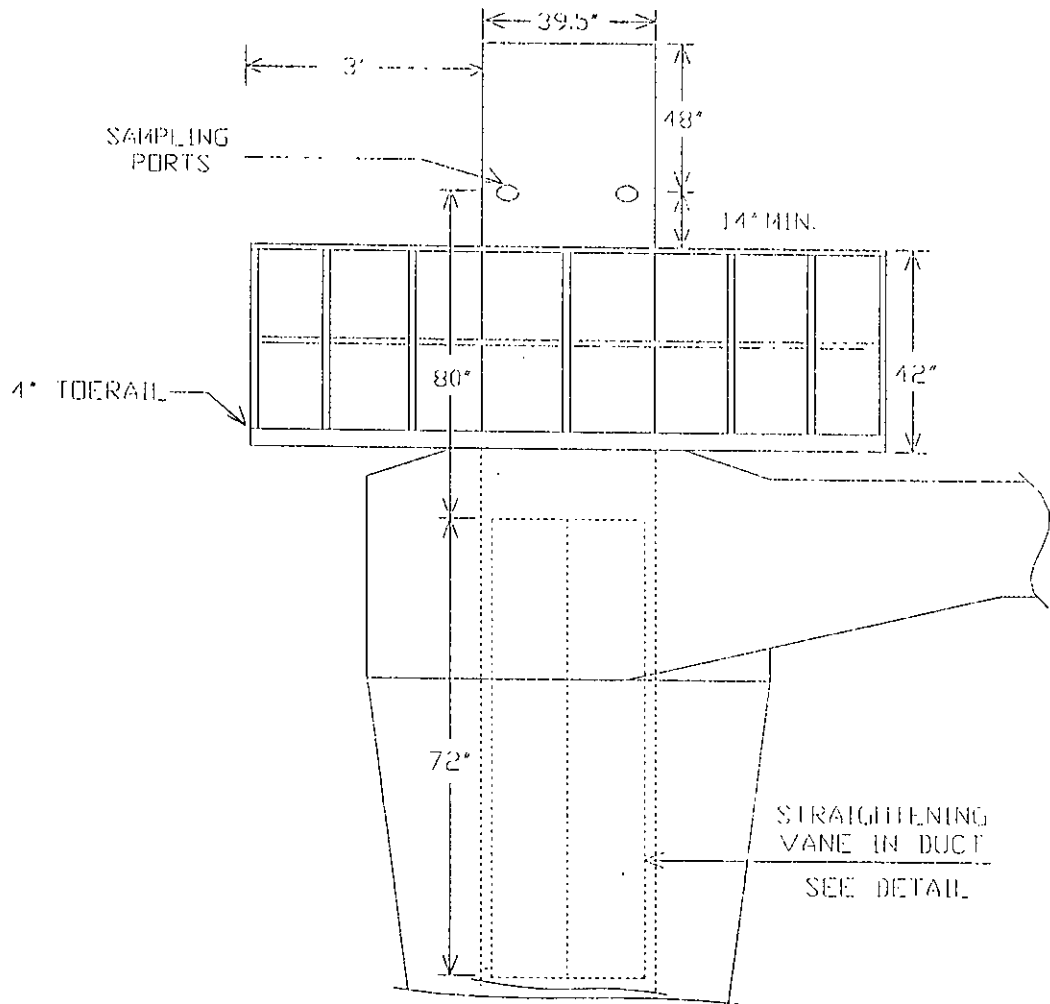
ROTTORF ASSOCIATES INC.
 CONSULTING ENGINEERS-ANALYTICAL LABORATORY
 6129 EDGEWATER COMMERCE PARKWAY ORLANDO, FLORIDA 32810-4278
 PHONE: (407) 299-0844

OCEAN SPRAY CRANBERRIES, INC.
PELLET COOLER WITH CYCLONE

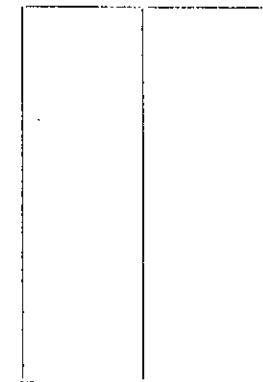
DATE:	REVISION:

DRAWN BY: RTC	DATE: 5/14/00
REVIEWED BY: RTC	VERSION: 10/086
SCALE: No Scale	FILENAME: FLD104PC

104
 PROJECT NO



STACK CROSS SECTION
TOP VIEW



STRAIGHTENING VANE
SIDE VIEW

DESCRIPTION OF STACK SAMPLING FACILITY

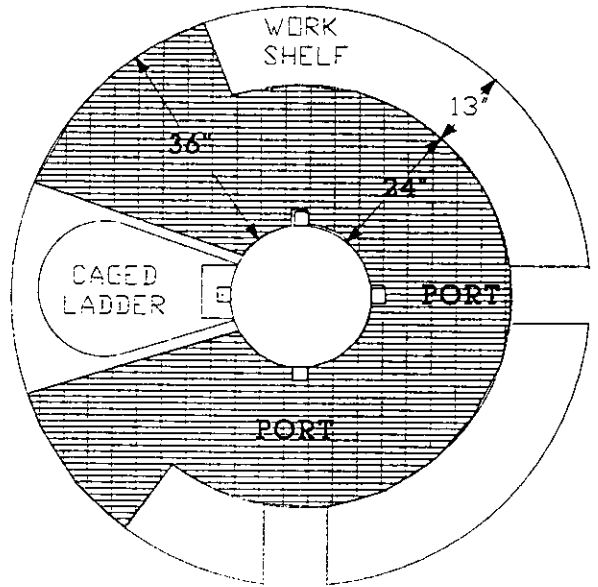
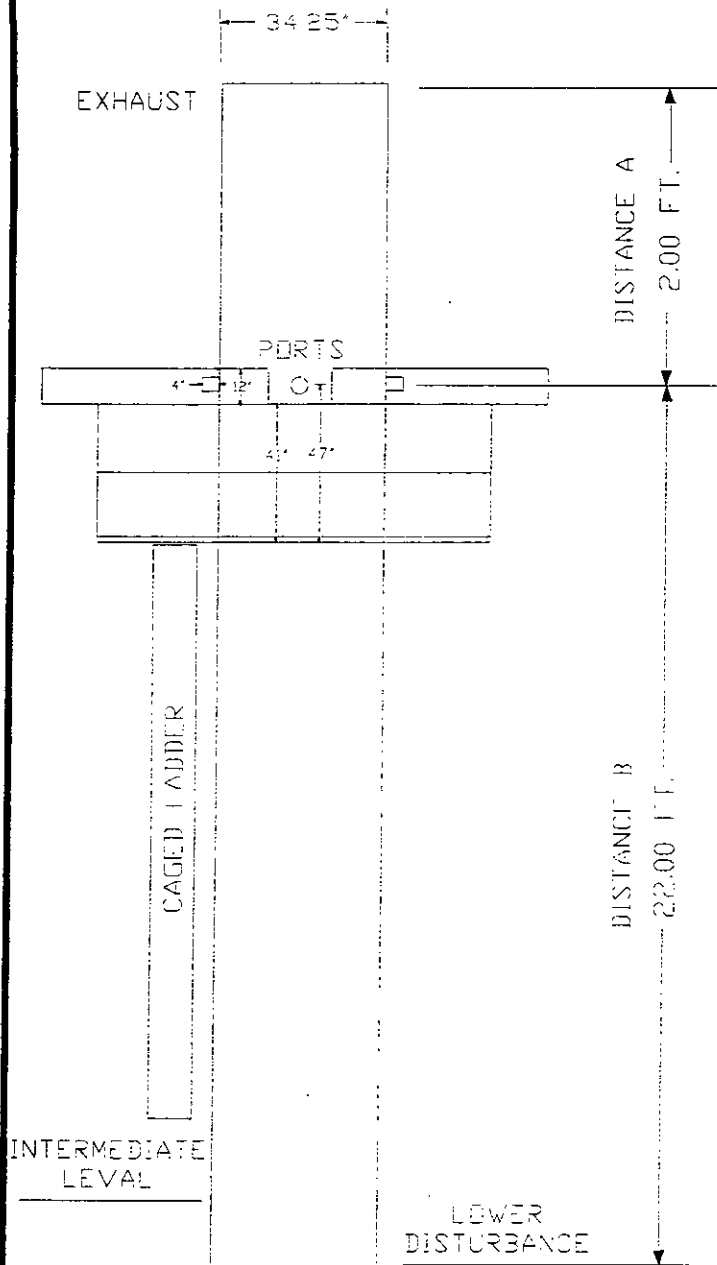
BOTTORF ASSOCIATES INC.
CONSULTING ENGINEERS-ANALYTICAL LABORATORY
6729 EDGEWATER COMMERCE PARKWAY, DUNEDIN, FLORIDA 32810-1279
PHONE: (407) 276-9644

OCEAN SPRAY CRANBERRIES, INC.
PELLET COOLER CYCLONE

DATE:	REVISION:
2/16/91	REVISED TITLE BLOCK

DRAWN BY: KDB	DATE: 5/14/96
REVIEWED BY: RTC	VERSION: 10/388
SCALE: No Scale	FILENAME: STK104PC

104-4
PROJECT NO



**DESCRIPTION OF
STACK SAMPLING
FACILITIES**

ROTTORF
Associates Inc.
CONSULTING ENGINEERS-ANALYTICAL LABORATORY
6729 EDGEWATER COMPLEX PARKWAY, SUITE 200, FORT LAUDERDALE, FL 33309
PHONE: 352-271-1111

OCEAN SPRAY CRANBERRIES, INC.
**DRYER/WASTE HEAT
EVAPORATOR**

DRAWN BY: KDB	DATE: 5/14/96
REVIEWED BY: RTC	VERSION: 10/286
SCALE: No Scale	FILENAME: STK210D

104-4
PROJECT NO.