

✓ #19608
\$1,000.00 TS

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DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE AIR PROGRAM



DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

Cover Sheet for Air Permit Application – Permit to Construct **Form CSPTC**

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER

1. Company Name Lewis-Clark Terminal, Inc.
2. Facility Name Lewis-Clark Terminal, Inc. 3. Facility ID No. 069-00010 and 069-00011
4. Brief Project Description - One sentence or less Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 tons/year.

PERMIT APPLICATION TYPE

5. New Source New Source at Existing Facility PTC for a Tier I Source Processed Pursuant to IDAPA 58.01.01.209.05.c
 Unpermitted Existing Source Facility Emissions Cap Modify Existing Source: Permit No.: P-060200 and P-2012.0027
Date Issued: 02/02/2007 and 05/18/2012 Required by Enforcement Action: Case No.: E-2012.0021 and E-2012.0023
6. Minor PTC Major PTC

FORMS INCLUDED

Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form CSPTC – Cover Sheet	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU1– Industrial Engine Information Please specify number of EU1s attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU2– Nonmetallic Mineral Processing Plants Please specify number of EU2s attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU3– Spray Paint Booth Information Please specify number of EU3s attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU4– Cooling Tower Information Please specify number of EU3s attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU5 – Boiler Information Please specify number of EU4s attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CBP– Concrete Batch Plant Please specify number of CBPs attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please specify number of HMAPs attached: ____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PERF – Portable Equipment Relocation Form	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form AO – Afterburner/Oxidizer	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CA – Carbon Adsorber	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CYS – Cyclone Separator	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form ESP – Electrostatic Precipitator	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form BCE– Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form SCE– Scrubbers Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form VSCE – Venturi Scrubber Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CAM – Compliance Assurance Monitoring	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI– Emissions Inventory	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>



Please see instructions on back page before filling out the form. All information is required. If information is missing, the application will not be processed.

Identification

1. Facility name: Lewis-Clark Terminal, Inc.
 2. Existing facility identification number: 069-00010 and 069-00011
 Check if new facility (not yet operating)
 3. Brief project description: Combine PTC's for both facilities into a single PTC, and increase allowable grain throughput

Facility Information

4. Primary facility permitting contact name: Arvid Lyons
 Contact type: Responsible official
 Telephone number: (208) 746-9685
 E-mail: arvidlyons@lctinc.biz
 5. Alternate facility permitting contact name: Beth Fifield Hodgson
 Alternate contact type: Facility permitting contact
 Telephone number: (509) 328-7500
 E-mail: beth@springenvironmental.com
 6. Mailing address where permit will be sent (street/city/county/state/zip code): 1534 3rd Avenue North, Lewiston, ID 83501
 7. Physical address of permitted facility (if different than mailing address) (street/city/county/state/zip code):
 8. Is the equipment portable? Yes* No *If yes, complete and attach PERF; see instructions.
 9. NAICS codes: Primary NAICS: 424510 Secondary NAICS:
 10. Brief business description and principal product produced: Storage, cleaning, and shipping of grain.
 11. Identify any adjacent or contiguous facility this company owns and/or operates: Lewis-Clark Terminal and Lewis-Clark Terminal, Inc. are adjacent.

12. Specify type of application Permit to construct (PTC); application fee of \$1,000 required. See instructions.
 Tier I permit Tier II permit Tier II/Permit to construct
 For Tier I permitted facilities only: If you are applying for a PTC then you must also specify how the PTC will be incorporated into the Tier I permit.
 Co-process Tier I modification and PTC Incorporate PTC at the time of Tier I renewal Administratively amend the Tier I permit to incorporate the PTC upon applicant's request (IDAPA 58.01.01.209.05.a, b, or c)

Certification

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho), I certify based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

13. Responsible official's name: Arvid Lyons
 Official's title: Facility Manager
 Official's address: 1534 3rd Avenue North, Lewiston, ID 83501
 Telephone number: (208) 746-9685
 E-mail: arvidlyons@lctinc.biz
 Official's signature: *Arvid Lyons*
 Date: 6-7-2013

14. Check here to indicate that you want to review the draft permit before final issuance.



Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
1. Company Name: Lewis-Clark Terminal, Inc.		2. Facility Name: Lewis-Clark Terminal, Inc.		3. Facility ID No: 069-00010 & 069-00011		
4. Brief Project Description: Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 TPY.						
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
5. Emissions Unit (EU) Name: NORTH END TRUCK DUMP & BARGE LOADING CONVEYOR						
6. EU ID Number: 01						
7. EU Type: <input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modification to a Permitted Source – Previous Permit #:P-060200 Date Issued: 02/02/2007						
8. Manufacturer: N/A						
9. Model: N/A						
10. Maximum Capacity: 150,000 TPY						
11. Date of Construction: UNKNOWN						
12. Date of Modification (if any): N/A						
13. Is this a Controlled Emission Unit? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22.						
EMISSIONS CONTROL EQUIPMENT						
14. Control Equipment Name and ID: KICE 144-10 Baghouse , BH01						
15. Date of Installation: Unknown 16. Date of Modification (if any):						
17. Manufacturer and Model Number: KICE 144-10						
18. ID(s) of Emission Unit Controlled: 01						
19. Is operating schedule different than emission units(s) involved? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
20. Does the manufacturer guarantee the control efficiency of the control equipment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)						
	Pollutant Controlled					
	PM	PM10	SO ₂	NOx	VOC	CO
Control Efficiency	>95	>95				
21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
22. Actual Operation: 3774 HR/YR						
23. Maximum Operation: 3774 HR/YR						
REQUESTED LIMITS						
24. Are you requesting any permit limits? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, indicate all that apply below)						
<input type="checkbox"/> Operation Hour Limit(s):						
<input checked="" type="checkbox"/> Production Limit(s): 150,000 TPY						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing: Please attach all relevant stack testing summary reports						
<input type="checkbox"/> Other:						
25. Rationale for Requesting the Limit(s): THE FACILITY WILL ROUTE AN ADDITIONAL 15,000 TONS/YEAR THROUGH THIS TRUCK DUMP.						



Please see instructions on page 2 before filling out the form.

IDENTIFICATION							
1. Company Name: Lewis-Clark Terminal, Inc.		2. Facility Name: Lewis-Clark Terminal, Inc.		3. Facility ID No: 069-00010 & 069-00011			
4. Brief Project Description:		Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 TPY.					
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION							
5. Emissions Unit (EU) Name:		SOUTH END TRUCK DUMP & BARGE LOADING CONVEYOR					
6. EU ID Number:		02					
7. EU Type:		<input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source		<input checked="" type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:P-060200 Date Issued: 02/02/2007			
8. Manufacturer:		N/A					
9. Model:		N/A					
10. Maximum Capacity:		375,000 TPY (NO CHANGE)					
11. Date of Construction:		UNKNOWN					
12. Date of Modification (if any):		N/A					
13. Is this a Controlled Emission Unit?		<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22.					
EMISSIONS CONTROL EQUIPMENT							
14. Control Equipment Name and ID:		KICE 144-10 Baghouse, BH02					
15. Date of Installation:		Unknown		16. Date of Modification (if any):			
17. Manufacturer and Model Number:		KICE 144-10					
18. ID(s) of Emission Unit Controlled:		South End Truck Dump, Barge Loading Conveyor					
19. Is operating schedule different than emission units(s) involved?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
20. Does the manufacturer guarantee the control efficiency of the control equipment?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)					
		Pollutant Controlled					
		PM	PM10	SO ₂	NO _x	VOC	CO
Control Efficiency		>95	>95				
21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.							
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)							
22. Actual Operation:		3774 HR/YR					
23. Maximum Operation:		3774 HR/YR					
REQUESTED LIMITS							
24. Are you requesting any permit limits?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, indicate all that apply below)					
<input type="checkbox"/> Operation Hour Limit(s):							
<input checked="" type="checkbox"/> Production Limit(s):		375,000 TPY (NO CHANGE)					
<input type="checkbox"/> Material Usage Limit(s):							
<input type="checkbox"/> Limits Based on Stack Testing:		Please attach all relevant stack testing summary reports					
<input type="checkbox"/> Other:							
25. Rationale for Requesting the Limit(s):		EXISTING PERMIT LIMITS					



Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
1. Company Name: Lewis-Clark Terminal, Inc.		2. Facility Name: Lewis-Clark Terminal, Inc.		3. Facility ID No: 069-00010 and 069-00011		
4. Brief Project Description: Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 TPY.						
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
5. Emissions Unit (EU) Name: WEST TRUCK DUMP, TUNNEL BELT, ELEVATOR LEG, BELT C						
6. EU ID Number: 03						
7. EU Type: <input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:P-2012.0027 Date Issued: 05/18/2012						
8. Manufacturer: N/A						
9. Model: N/A						
10. Maximum Capacity: 225,000 TPY						
11. Date of Construction: UNKNOWN						
12. Date of Modification (if any): N/A						
13. Is this a Controlled Emission Unit? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22.						
EMISSIONS CONTROL EQUIPMENT						
14. Control Equipment Name and ID: KICE 144-10 Baghouse, BH03						
15. Date of Installation: Unknown 16. Date of Modification (if any):						
17. Manufacturer and Model Number: KICE 144-10						
18. ID(s) of Emission Unit Controlled: 03 (West Truck Dump, Tunnel Belt, Elevator Leg, Large Belt Conveyor Transfer Point)						
19. Is operating schedule different than emission units(s) involved? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
20. Does the manufacturer guarantee the control efficiency of the control equipment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)						
		Pollutant Controlled				
		PM	PM10	SO ₂	NOx	VOC
Control Efficiency		>95	>95			CO
21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
22. Actual Operation: 3774 HR/YR						
23. Maximum Operation: 3774 HR/YR						
REQUESTED LIMITS						
24. Are you requesting any permit limits? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, indicate all that apply below)						
<input type="checkbox"/> Operation Hour Limit(s):						
<input checked="" type="checkbox"/> Production Limit(s): 225,000 TPY						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing: Please attach all relevant stack testing summary reports						
<input type="checkbox"/> Other:						
25. Rationale for Requesting the Limit(s): THE FACILITY WILL ROUTE AN ADDITIONAL 1,000 TONS/YEAR THROUGH THIS TRUCK DUMP.						



Please see instructions on page 2 before filling out the form.

IDENTIFICATION						
1. Company Name: Lewis-Clark Terminal, Inc.		2. Facility Name: Lewis-Clark Terminal, Inc.		3. Facility ID No: 069-00010 & 069-00011		
4. Brief Project Description: Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 TPY.						
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION						
5. Emissions Unit (EU) Name: STORAGE SILOS						
6. EU ID Number:						
7. EU Type: <input type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input checked="" type="checkbox"/> Modification to a Permitted Source -- Previous Permit #: P-060200 & P-2012.0027 Date Issued: 02/02/2007 & 5/18/2012						
8. Manufacturer: UNKNOWN						
9. Model: UNKNOWN						
10. Maximum Capacity: 8 X 250,000 BUS BINS, 30 X 3,000-64,000 BU BINS						
11. Date of Construction: UNKNOWN						
12. Date of Modification (if any): N/A						
13. Is this a Controlled Emission Unit? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, complete the following section. If No, go to line 22.						
EMISSIONS CONTROL EQUIPMENT						
14. Control Equipment Name and ID: N/A						
15. Date of Installation: 16. Date of Modification (if any):						
17. Manufacturer and Model Number:						
18. ID(s) of Emission Unit Controlled:						
19. Is operating schedule different than emission units(s) involved? <input type="checkbox"/> Yes <input type="checkbox"/> No						
20. Does the manufacturer guarantee the control efficiency of the control equipment? <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, attach and label manufacturer guarantee)						
Control Efficiency	Pollutant Controlled					
	PM	PM10	SO ₂	NO _x	VOC	CO
21. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.						
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)						
22. Actual Operation: 8760 HR/YR						
23. Maximum Operation: 8760 HR/YR						
REQUESTED LIMITS						
24. Are you requesting any permit limits? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If Yes, Indicate all that apply below)						
<input type="checkbox"/> Operation Hour Limit(s):						
<input type="checkbox"/> Production Limit(s):						
<input type="checkbox"/> Material Usage Limit(s):						
<input type="checkbox"/> Limits Based on Stack Testing: Please attach all relevant stack testing summary reports						
<input type="checkbox"/> Other:						
25. Rationale for Requesting the Limit(s):						



DEQ AIR QUALITY PROGRAM
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Baghouse Control Equipment **Form BCE**
 Revision 6
 2/18/10

Complete this form for each baghouse. Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
1. Company Name Lewis Clark-Terminal, Inc.	2. Facility Name: Lewis-Clark Terminal, Inc.	
3. Brief Project Description: Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 tons/year. There is no change to this existing permitted baghouse.		
BAGHOUSE INFORMATION		
4. Baghouse Manufacturer: KICE	5. Baghouse Model: 144-10	6. Baghouse Equipment ID: BH01 (North Truck Dump Baghouse)
7 (a). Baghouse particulate matter emission concentration. Note: Provide information in 7(a)-(c) or answer question #8 below.	<u>0.1 (no change from permit)</u> gr/dscf	<i>Manufacturers typically provide guarantees in grains per dry standard cubic foot (gr/dscf). Provide a copy of the guarantee, or other documentation, with the application along with a description of the types of bags that must be used to achieve the emission concentration. Emission concentrations less than 0.01 gr/dscf will receive additional scrutiny by DEQ and a source test of the baghouse may be required. If a guarantee is not provided then you must document how you obtained the emission concentration. Without documentation the application is not complete.</i>
7 (b). Percentage PM ₁₀ Or Provide PM ₁₀ Emission Concentration	<u>100</u> % _____ gr/dscf	<i>What percentage of the PM concentration listed in question #7(a) is PM₁₀. You must provide documentation as to how the percentage was determined (i.e. per the baghouse manufacturer). Without documentation the application is not complete.</i>
7 (c). Baghouse flow rate	<u>16,000 (no change from permit)</u> dscfm	<i>Provide the baghouse flow rate in dry standard cubic feet per minute. Actual cubic feet per minute may be given in lieu of dscfm if it is documented that moisture content is insignificant. You must provide documentation as to how this flow rate was determined (i.e. per the exhaust fan manufacturer, combustion evaluation, etc.). Without documentation the application is not complete.</i>
8. Baghouse particulate matter control efficiency. Note: Not needed if section #7 is completed.	_____ % PM control _____ % PM ₁₀ control	<i>Applicant's providing the control efficiency of the baghouse must provide control efficiency for both PM and PM₁₀. Provide a copy of the control efficiency documentation with the application. Documentation must include a description of the types of bags that must be used to achieve the control efficiency. Without documentation the application is not complete.</i>
9. Is the baghouse equipped with a bag leak detector?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>If a bag leak detector is installed provide documentation on the leak detector, including; how the leak detector functions and what level of the output signal indicates that a bag is leaking. Without documentation the application is not complete.</i>

West Truck Dump Kice Baghouse

FILTER MEDIA PERFORMANCE

STANDARD FILTER BAGS

SL (5-3-2012)

As of 4-1-2008, the standard filter bags supplied with Kice Filters are made of a fabric called Durapex™ PET, made by Polymer Group Inc. It is a 10.5 oz/yd², 100% polyester, non-woven fabric. Durapex is 99.9% efficient by weight.

This material was independently tested in accordance with the EPA's ETV program. The results of this test follow for two different air-to-cloth ratios.

	Durapex, 10.5 oz/yd ²	Durapex, 10.5 oz/yd ²
Air-To-Cloth Ratio (fpm)	9.8	4.9
Inlet Dust Concentration (gr/dscf)	8.0	8.0
PM _{2.5} Concentration Average (gr/dscf)	1.85 x 10 ⁻⁵	8.2 x 10 ⁻⁵
Total PM Concentration Average (gr/dscf)	2.95 x 10 ⁻⁵	3.15 x 10 ⁻⁵
Average Pressure Drop ("w.g.)	5.22	1.35

The dust collector efficiency rating for 16 oz/yd² singed polyester felt filter bags is

The ETV testing shows a significant increase in efficiency for the Durapex 10.5 oz/yd² over the singed polyester felt filter bags, especially for small particle sizes.

For the complete test report, see the following:

"Environmental Technology Verification Report, Baghouse Filtration Products, Polymer Group, Inc. DURAPEX™ PET Filter Sample" ETS Incorporated, RTI International. September 2001
<http://www.epa.gov/nrmrl/std/etv/pubs/05_vr_durapex.pdf>.

If you have any questions or require more information, please contact us.

Kice Industries Inc
5500 Mill Heights Dr.
Wichita, Ks 67219
(316) 744 - 7151
www.kice.com



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
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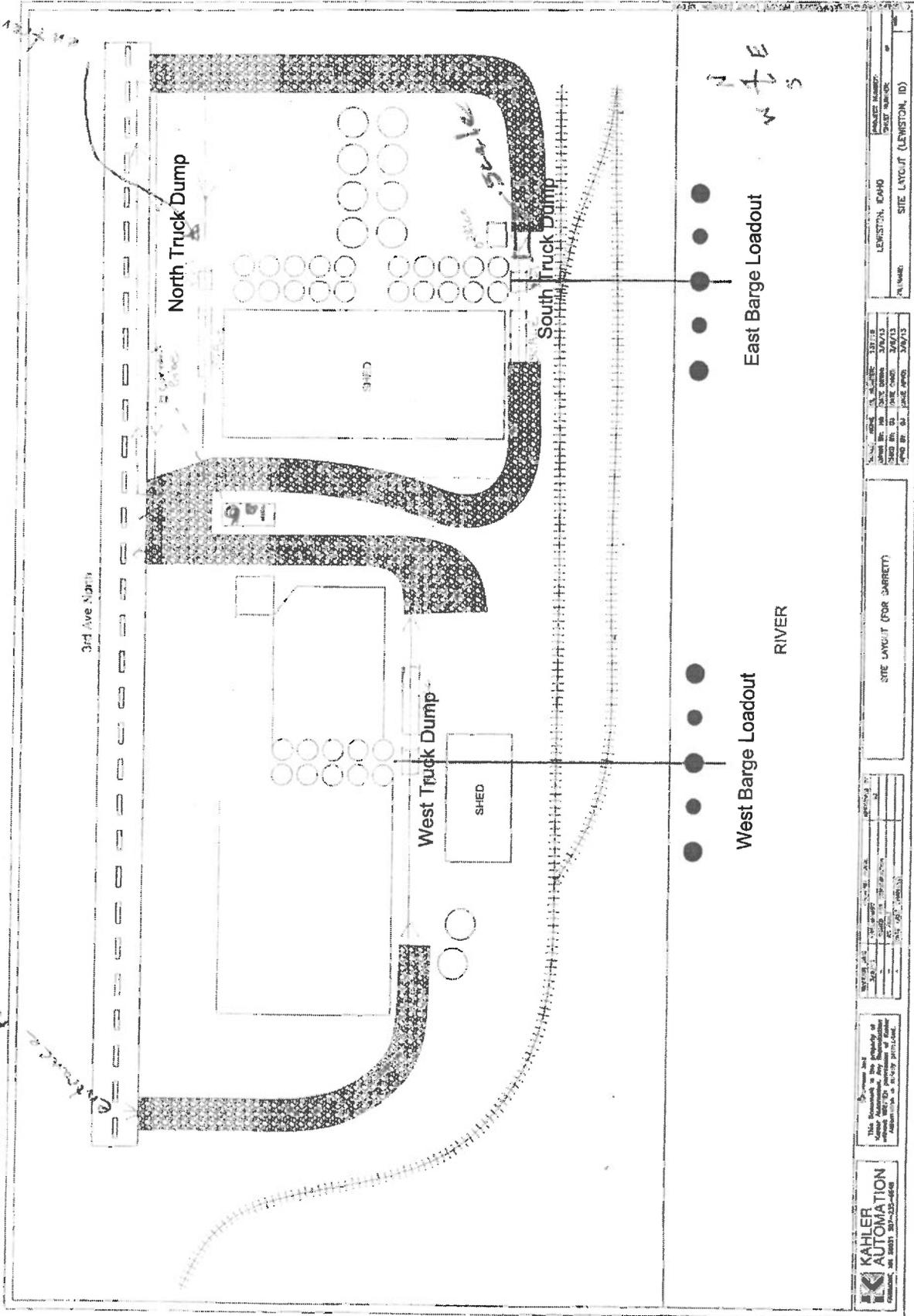
AIR PERMIT APPLICATION

Revision 6
 10/7/09

For each box in the table below, CTRL+click on the blue underlined text for instructions and information.

IDENTIFICATION	
<p>1. Company Name: Lewis-Clark Terminal, Inc.</p>	<p>2. Facility Name: Lewis-Clark Terminal, Inc.</p>
<p>3. Brief Project Description: Combine PTC's for both facilities into a single PTC, and permit grain throughput of 750,000 tons/year.</p>	
APPLICABILITY DETERMINATION	
<p>4. List applicable subparts of the New Source Performance Standards (NSPS) (<u>40 CFR part 60</u>).</p> <p>Examples of NSPS affected emissions units include internal combustion engines, boilers, turbines, etc. The applicant must thoroughly review the list of affected emissions units.</p>	<p>List of applicable subpart(s):</p> <p>The facility has not been modified or reconstructed after August 3, 1978, therefore 40 CFR 60.300 does not apply (refer to current permits P-060200 & P-2012.0027).</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) found in <u>40 CFR part 61</u> and <u>40 CFR part 63</u>.</p> <p>Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. <u>EPA has a web page dedicated to NESHAP</u> that should be useful to applicants.</p>	<p>List of applicable subpart(s):</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>6. For each subpart identified above, conduct a complete a regulatory analysis using the instructions and referencing the example provided on the following pages.</p> <p>Note - Regulatory reviews must be submitted with sufficient detail so that DEQ can verify applicability and document in legal terms why the regulation applies. Regulatory reviews that are submitted with insufficient detail will be determined incomplete.</p>	<p><input type="checkbox"/> A detailed regulatory review is provided (Follow instructions and example).</p> <p><input type="checkbox"/> DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date.</p>

Lewis-Clark Terminal, Inc.



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DATE	12/11/13	BY	J. J. J.
DATE	12/11/13	BY	J. J. J.
DATE	12/11/13	BY	J. J. J.
DATE	12/11/13	BY	J. J. J.

SITE LAYOUT (FOR JARRETT)

DATE	12/11/13	BY	J. J. J.
DATE	12/11/13	BY	J. J. J.
DATE	12/11/13	BY	J. J. J.
DATE	12/11/13	BY	J. J. J.

PROJECT NUMBER:
LEWISTON, IDAHO
SITE LAYOUT (LEWISTON, ID)

PROPOSED CHANGE IN EMISSIONS

Facility Name: Lewis-Clark Terminal
 Project: PTC Consolidation and Throughput Increase

Facility Information:

Facility Throughput:			
Bushels	151 bushels/hr 1,566 bushels/day (average) 571,429 bushels/year	Estimated Hours of Operation	3774 hrs/yr (no change) 10 hrs/day (303 days/yr, no change) 12 hrs/day (62 days/yr, no change) 10.3 hrs/day (average, no change)
Pounds	8,479 lbs/hr 87,671 lbs/day (average) 32,000,000 lbs/yr	Conversion Factor	1 bushel = 56 lbs
Tons	4 tons/hr 44 tons/day (average) 16,000 tons/yr total throughput increase, for a combined total throughput of 750,000 tons/year ¹		

Emission Factors

Source	PM ₁₀ (lbs/ton of grain)	PM _{2.5} (lbs/ton of grain)	Emission Factor Reference
Barge	0.004	0.00055	AP-42, 5th
Truck	0.029	0.0049	Ed., Chapter
Hopper Truck	0.0078	0.0013	9.9.1, Table
Straight Truck	0.059	0.010	9.9.1-1,
Storage Bins	0.0063	0.0011	March 2003

Receiving³

North End Truck Dump

Control: Oil Suppression and Baghouse

Throughput¹

4 tons/hr
41 tons/day
135,000 tons/yr (Under permit # P-060200)
15,000 tons/yr (Proposed increase)

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Straight Truck (25%)	5.9E-02	6.1E-01	2.2E+02	1.1E-01	9.9E-03	1.0E-01	3.8E+01	1.9E-02
Hopper Truck (75%)	2.3E-02	2.4E-01	8.8E+01	4.4E-02	3.9E-03	4.0E-02	1.5E+01	7.3E-03
Uncontrolled Total:	8.2E-02	8.5E-01	3.1E+02	1.5E-01	9.9E-03	1.0E-01	3.8E+01	1.9E-02
Controlled Total⁴	1.2E-03	1.3E-02	4.6E+00	2.3E-03	1.5E-04	1.5E-03	5.5E-01	2.8E-04

Calculate Grain Loading:

0.0008 lbs/hr (maximum emissions, assuming 99.9% control efficiency)
 16,000 cfm (per Statement of Basis for PTC No. P-060200); assume cfm = dscfm
 0.1 g/dscf (calculated)

South End Truck Dump

Control: Oil Suppression and Baghouse

Throughput¹

No change tons/hr
No change tons/day (average)
375,000 tons/yr (Under permit # P-060200)
0 tons/yr (Proposed increase)

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Straight Truck (25%)	No change	No change	No change	No change	No change	No change	No change	No change
Hopper Truck (75%)	No change	No change	No change	No change	No change	No change	No change	No change
Uncontrolled Total:	0	0	0	0	0	0	0	0
Controlled Total⁴	0	0	0	0	0	0	0	0

Calculate Grain Loading:

0.002 lbs/hr (maximum emissions, assuming 99.9% control efficiency)
 20,000 cfm (per Statement of Basis for PTC No. P-060200); assume cfm = dscfm
 0.2 g/dscf (calculated)

West Truck Dump

Control: Baghouse

Throughput²

0.26 tons/hr
2.7 tons/day
224,000 tons/yr (Under permit # P-2012.0027)
1,000 tons/yr (Proposed increase)

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Straight Truck (25%)	3.9E-03	4.0E-02	1.5E+01	7.4E-03	6.6E-04	6.8E-03	2.5E+00	1.3E-03
Hopper Truck (75%)	1.6E-03	1.6E-02	5.9E+00	2.9E-03	2.6E-04	2.7E-03	9.8E-01	4.9E-04
Uncontrolled Total:	5.5E-03	5.6E-02	2.1E+01	1.0E-02	6.6E-04	6.8E-03	2.5E+00	1.3E-03
Controlled Total³	1.1E-05	1.1E-04	4.1E-02	2.1E-05	2.3E-05	2.3E-04	8.5E-02	4.3E-05

Calculate Grain Loading:

99.9% PM Control efficiency (per manufacturer)
 8 g/dscf Inlet Loading
 0.1 g/dscf

Shipping

East Barge Loadout

Control: Oil suppression and baghouse on bin transfers

Throughput

4 tons/hr
41 tons/day
15,000 tons/yr

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Barge (100%)	1.6E-02	1.6E-01	6.0E+01	3.0E-02	2.2E-03	2.3E-02	8.3E+00	4.1E-03
Uncontrolled Total:	1.6E-02	1.6E-01	6.0E+01	3.0E-02	2.2E-03	2.3E-02	8.3E+00	4.1E-03
Controlled Total⁴	2.4E-04	2.5E-03	9.0E-01	4.5E-04	3.3E-05	3.4E-04	1.2E-01	6.2E-05

West (Former CLD) Barge Loadout
Control: Oil suppression

Throughput
0.26 tons/hr
2.7 tons/day
1,000 tons/yr (Proposed increase)

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Barge (100%)	1.1E-03	1.1E-02	4.0E+00	2.0E-03	1.5E-04	1.5E-03	5.5E-01	2.8E-04
Uncontrolled Total:	1.1E-03	1.1E-02	4.0E+00	2.0E-03	1.5E-04	1.5E-03	5.5E-01	2.8E-04
Controlled Total ⁴	3.2E-04	3.3E-03	1.2E+00	6.0E-04	4.4E-05	4.5E-04	1.7E-01	8.3E-05

Storage

Storage Bins - For North & South Truck Dump
Control: Oil suppression

Storage Bin
Hours of Operation: 24 hrs/day
7 days/week
52 weeks/year

Throughput
4 tons/hr
41 tons/day
15,000 tons/yr

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Storage Bins	2.5E-02	2.6E-01	9.5E+01	4.7E-02	4.4E-03	4.5E-02	1.7E+01	8.3E-03
Uncontrolled Total:	2.5E-02	2.6E-01	9.5E+01	4.7E-02	4.4E-03	4.5E-02	1.7E+01	8.3E-03
Controlled Total ⁴	7.5E-03	7.8E-02	2.8E+01	1.4E-02	1.3E-03	1.4E-02	5.0E+00	2.5E-03

Storage Bins - For West Truck Dump
Control: None

Storage Bin
Hours of Operation: 24 hrs/day
7 days/week
52 weeks/year

Throughput
0.26 tons/hr
2.7 tons/day
1,000 tons/yr

	PM ₁₀				PM _{2.5}			
	lb/hr	lb/day	lb/yr	ton/yr	lb/hr	lb/day	lb/yr	ton/yr
Storage Bins	1.7E-03	1.7E-02	6.3E+00	3.2E-03	2.9E-04	3.0E-03	1.1E+00	5.5E-04
Uncontrolled Total:	1.7E-03	1.7E-02	6.3E+00	3.2E-03	2.9E-04	3.0E-03	1.1E+00	5.5E-04
Controlled Total	5.0E-04	5.2E-03	1.9E+00	9.5E-04	8.7E-05	9.0E-04	3.3E-01	1.7E-04

Temporary Outdoor Storage Piles

Fugitive emissions due to temporary outdoor storage are already permitted under PTC No. 2012.0027

Emissions Summary

	Current Permitted Emissions			Proposed Change in Emissions			Total Emissions				
	Receiving	Storage Bins	Shipping	Receiving	Storage Bins	Shipping	Total	Receiving	Storage Bins	Shipping	Total
PM ₁₀ (lb/hr)	4.4E-02	3.7E-01	8.0E-02	1.2E-03	8.0E-03	5.6E-04	9.8E-03	4.5E-02	3.8E-01	8.0E-02	5.0E-01
PM ₁₀ (lb/day)	4.6E-01	3.8E+00	8.2E-01	1.3E-02	8.3E-02	5.8E-03	1.0E-01	4.7E-01	3.9E+00	8.3E-01	5.2E+00
PM ₁₀ (lb/yr)	1.1E+02	1.4E+03	3.0E+02	4.7E+00	3.0E+01	2.1E+00	3.7E+01	1.2E+02	1.4E+03	3.0E+02	1.8E+03
PM ₁₀ (ton/yr)	5.7E-02	6.9E-01	1.5E-01	2.3E-03	1.5E-02	1.1E-03	1.9E-02	5.9E-02	7.1E-01	1.5E-01	9.2E-01
PM _{2.5} (lb/hr)	5.4E-03	6.4E-02	1.1E-02	1.7E-04	1.4E-03	7.7E-05	1.6E-03	5.5E-03	6.6E-02	1.1E-02	8.2E-02
PM _{2.5} (lb/day)	5.5E-02	6.6E-01	1.1E-01	1.8E-03	1.4E-02	7.9E-04	1.7E-02	5.7E-02	6.8E-01	1.1E-01	8.5E-01
PM _{2.5} (lb/yr)	2.0E+01	2.4E+02	4.1E+01	6.5E-01	5.3E+00	2.9E-01	6.2E+00	2.1E+01	2.5E+02	4.2E+01	3.1E+02
PM _{2.5} (ton/yr)	1.0E-02	1.2E-01	2.1E-02	3.2E-04	2.6E-03	1.4E-04	3.1E-03	1.0E-02	1.2E-01	2.1E-02	1.6E-01

Notes:

- The total facility throughput of 750,000 tons/year is to be distributed as follows: 20% through the North Truck Dump, 30% through the West Truck Dump, and 50% through the South Truck Dump. The increased throughput for each pit due to the proposed facility throughput increase is addressed on a tonnage basis.
- PTC No. P-2012.0027 and its Statement of Basis do not provide a production limit. Based on a public records request submitted to IDEQ on 4/5 2013, the original application cannot be found. Based on March 29, 1990 and July 11, 1991 inspection reports, the facility has operated at a throughput of up to 8 million bushels/year (224,000 tons/year); this is considered the foundation for the proposed modification.
- Per PTC No. P-060200: Railcar deliveries are lower in emission rates, so the emissions would not increase if deliveries are by rail rather than by truck; therefore assumed 100% truck delivery.
- Per PTC No. P-060200: Emissions are controlled by 70% efficient food grade oil dust suppressant and 95% efficient Kice baghouse. The Kice baghouse design efficiency is 99.9% but applicant used only 95% in the application. 95% control efficiency was therefore used in this application for consistency with prior permitting actions.
- The Kice baghouse design efficiency is 99.9% for Total PM, and 99.8% for PM10 per manufacturer's specifications.
- Emissions are controlled by 70% efficient food grade oil suppressant.

Modeling Threshold Comparison

Pollutants	Modeling Threshold* (lb/hr)	Modeling Threshold (TPY)	Proposed Emissions Change (lb/hr)	Proposed Emissions Change (ton/yr)	Modeling Required?
PM ₁₀	0.22	--	0.010	0.019	No
PM _{2.5}	0.054	0.35	0.0016	0.0031	No

*Modeling Thresholds from Table 2 of "State of Idaho Guideline for Performing Air Quality Impact Analyses".