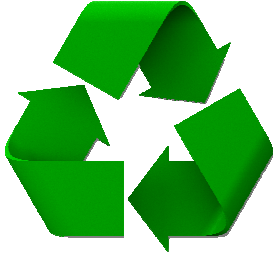


CAMERON GREAT LAKES, INC.

MOLECULAR FILTRATION SPECIALISTS



CARBON REACTIVATION

How it makes cents!



G

For many years the low cost of carbon and the high cost of energy made reactivation less attractive than disposal. With carbon prices rising over 50% in the past couple of years reactivation has now become an economically sound option.

O

Here are just a few benefits to recycling your spent carbon:

COST SAVINGS:

Reactivation: Send your spent carbon back to our facility for regeneration, you save the disposal cost.

G

Custom remanufacturing: Send us your spent carbon for remanufacturing for your own reuse., you pay for the reactivation service.

The above programs require minimum quantities.

r

LEED CERTIFICATION:

Recycling your carbon by remanufacturing helps your clients with Leed Certifications by reducing the amount of waste they send to the landfill.

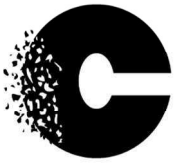
e

Now is the time to be environmentally and economically conscious. In many applications the use of remanufactured carbons will be as effective at molecular filtration as will a virgin carbon.

e

Please call or email at us to discuss setting up a reactivation program for your used carbons.

n



CAMERON GREAT LAKES, INC.

MOLECULAR FILTRATION SPECIALISTS

Approval Date: _____ Approval Number: _____

Approval By: _____ Title: _____

TO BE COMPLETED FOR EACH SHIPMENT OF SPENT HVAC CARBON

1. Customer Information:
 - a. Company Name: _____
 - b. Company Address: _____
 - c. Representative's Name: _____
 - d. Representative's Title: _____
 - e. Telephone Number: _____
 - f. Fax Number: _____
 - g. Anticipated Shipping Date: _____
 - h. Purchase Order Number: _____

2. Spent Carbon Information:
 - a. Quantity (by volume or weight): _____
 - b. Shipping container type: _____
 - c. Number of shipping containers: _____
 - d. Number of Filters Spent Carbon Originated From: _____
 - e. Number of Companies Generating Spent Carbon: _____
 - f. Has the spent carbon been used in HVAC systems only? YES _____ NO _____
 - g. Has the spent carbon been used in air filters that are piped directly to any industrial or chemical process? YES _____ NO _____
 - h. Does the Spent carbon contain any chlorinated or toxic chemicals? YES _____ NO _____
 - i. Are there any known hazards associated with this spent carbon that CGL should consider in handling? YES _____ NO _____

3. Customer Certification

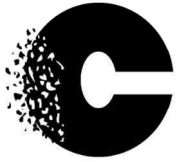
I hereby certify that to the best of my knowledge, all information submitted in this document is true and accurate and that all known or suspected chemical contaminants and potential hazards have been disclosed.

Signature

Title

Name (typed or printed)

Date



CAMERON GREAT LAKES, INC.

MOLECULAR FILTRATION SPECIALISTS

Approval Date: _____ Approval Number: _____

Approval By: _____ Title: _____

SPENT CARBON PROFILE FORM

A. Generator Information

1. Generating Facility: _____
2. Site Address: _____

Mailing Address: _____

3. EPA I.D. Number _____
 Is this a SUPERFUND site? YES _____ NO _____
4. Generator Technical Representative: _____
5. Phone No.:(____)____-____ Title: _____
 Fax No.: (____)____-____
6. Generator Business Representative: _____
7. Phone No.:(____)____-____ Fax No.:(____)____-____

B. Cameron Great Lakes Distributor Information(if applicable)

1. Distributor Name: _____
2. Distributor Representative: _____
3. Phone No.:(____)____-____ Fax No.:(____)____-____
4. Who is Cameron Great Lakes to contact regarding this form?
 ()A-4 above
 ()B-2 above
 ()Other Name: _____
 Company: _____
 Phone No.:(____)____-____ Fax No.:(____)____-____

REQUIRED: Ship Amt: _____ Distributor PO# _____

Generator Certification

I hereby certify that to the best of my knowledge, all information submitted in this and all attached documents is true and accurate, and that all know or suspected chemical contaminants and potential hazards have been disclosed.

Signature _____ Date _____

Name (type or print) _____ Title (type or print) _____

C. **Spent Carbon Identification**

1. Describe the carbon treatment system and detail the source of, or process which created the contaminants that are on this carbon (examples; system filtering gasoline leaking underground storage tank, wastewater treatment for spent solvent used for degreasing printed circuit boards, ground water cleanup of spilled chemical from drum storage area, air filtration of office building, waste water treatment from a municipal sewage plant, etc.):

2. Treatment System:

- a. Total Carbon by volume or weight: _____
- b. No. of Filters: _____ c. Flow Rate: _____ ()GPM()CFM
- d. Service Duration between carbon changeouts:
_____ Number of Months
_____ Days used per month
_____ Hours used per day
- e. Anticipated Spent Carbon Quantity Generated:
_____ Volume or Pounds (dry) per _____ (wk, mo, yr)
circle one circle one

3. Type of Carbon: a. U.S. Mesh Size: _____
b. Liquid or Vapor: _____

4. Shipping Container Type: _____

5. Spent Carbon Color: _____

6. Foreign Material Present (rocks, dirt, etc.) ()YES ()NO

If yes, describe: _____

7. A chemical analysis of the influent stream or spent carbon must be provided. Please attach. Please list organic contaminants and concentrations in () Influent Stream, or () on spent carbon below.

<u>Chemical Component</u>	<u>Concentration(ppm/ppb)</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

8. Does the Influent Stream () or Spent Carbon () Contain:

Metals _____ YES _____ NO PCB's _____ YES _____ NO

Radioactives _____ YES _____ NO Dioxins _____ YES _____ NO

If any item above is "yes" attach analysis and describe:

D. **Spent Carbon Hazardous Characterization**

Questions 1a, 2a, & 3, must be answered. If the answer to part (a) is “no” you need not complete the rest of that particular question.

1A. Is the spent carbon a Hazardous Waste as defined by U.S. EPA regulations under the Resource Conservation and Recovery Act(RCRA) as set fourth in 40 CFR, Part 261?
_____ YES _____ NO

1B. If “yes”, list U.S. EPA Hazardous Waste Code(s):

2A. Is the spent carbon a Hazardous Waste as defined by your State’s regulations? _____ YES _____ NO

2B. If “yes”, list Generator State’s waste code(s):

3. Generator’s State Agency Information:
Agency Name: _____
Agency Address: _____

E. **Spent Carbon Handling Instructions**

1. Required personal protection equipment or special handling instructions?

2. Do you have MSDS(s) for all contaminants in influent stream or on spent carbon?
_____ YES _____ NO Please attach to original copy of this form.

Call “Profile Form Assistance” at **800-777-4044** with any questions.

Mail Signed Original to:
Cameron Great Lakes
2335 NW 29TH Ave.
Portland, OR 97210

This form and lab analyses (without MSDS’s) may be faxed to
503-225-0137
to expedite the approval process.



Media Analysis Report

Client	Date								
Reference									
Installation Date									
Sample ID									
Butane Activity									
CTC number - calculated									
% Life Remaining									
pH									
% Life Remaining									
KMnO ₄ %									
% Life Remaining									
Life remaining, months (1)									
Re test recommended									

Carbon is considered spent when CTC is 15, change out is recommended at 25.
 CI carbon is considered spent @ 7.5 in critical applications 8.5.
 PA carbon is considered spent @ 6.5, in critical applications 5.0.
 Permanganate is considered spent @ 1.2, change out is recommended at 1.6.
 In the case of a blended media the remaining service time is calculated based on the lowest percentage of life remaining between the two media.
 Note (1) Calculated only when installation date is provided:

Permanganate % by wt.

2.2 to 6.0	Safe
2.2 to 1.6	Boderline
1.6 to 1.2	Change
1.2 to 0.0	Change Immediately