



APPLICATION FOR A COASTAL ZONE ACT PERMIT

**State of Delaware
Department of Natural Resources & Environmental Control
Office of the Secretary**

July 12, 2016 amended August 18, 2016
Ultrachem Production Increase
Ultrachem Inc
Robert Whiting, President

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Permit Application Instructions

1. Complete all parts of the application. For sections which are not applicable to your project, do not leave blank; present a statement that clearly states why the section is not applicable to your project.
2. Because all applicants' projects are different, this word document template will provide you flexibility for needed space to answer the questions. Please insert additional lines for text where needed for your application. If appropriate, attach extra pages referencing each answer by the corresponding section and question number.
3. Submit eight complete hard copies of the permit application to:

Office of the Secretary
Department of Natural Resources & Environmental Control
State of Delaware
89 Kings Highway
Dover, DE 19901

In addition to the eight hard copies, submit a complete electronic "pdf" copy of the permit application and a copy of the Offset Matrix in Microsoft Word format on cd-rom.

4. Comply, if required, or as requested by the DNREC Secretary, with 7 Delaware Code, Chapter 79, Section 7902. If requested, but not completed, your application will not be considered administratively complete until this form is reviewed.
5. Be sure to include your permit application fee of \$3,000; otherwise the application will not be considered administratively complete. Make checks payable to the "State of Delaware."
6. Be advised that the application for a Delaware Coastal Zone Act Permit is a public document, which may be displayed at DNREC offices, public libraries, and the web, among others. If this application requires you to place confidential information or data in the application to make it administratively complete, note the Delaware Freedom of Information Act (29 Delaware Code, Chapter 100) and DNREC's Freedom of Information Act Regulation, Section 6 (Requests for Confidentiality), for the proper procedure in requesting confidentiality.

Note: This application template was last revised by DNREC on January 30, 2008. Please discard any previous versions.

PART 1

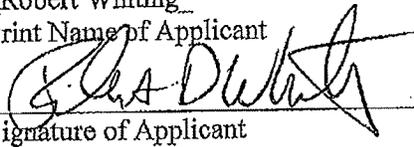
CERTIFICATION BY APPLICANT

Under the penalty of perjury pursuant to 11 Delaware Code §1221-1235, I hereby certify that all the information contained in this Delaware Coastal Zone Act Permit Application and in any attachments is true and complete to the best of my belief.

I hereby acknowledge that any falsification or withholding of information will be grounds for denial of a Coastal Zone Permit.

I also hereby acknowledge that all information in this application will be public information subject to the Delaware Freedom of Information Act, except for clearly identified proprietary information agreed to by the Secretary of the Department of Natural Resources & Environmental Control.

Robert Whiting
Print Name of Applicant


Signature of Applicant

____ President ____
Title

____ July 8, 2016 ____
Date

PART 2

APPLICANT INFORMATION AND SITE IDENTIFICATION

2.1 Identification of the applicant:

Company Name: Ultrachem INC
Address: 900 CENTERPOINT BLVD, NEW CASTLE, DE 19720
Telephone: 302-325-9880
Fax: 302-325-0335

2.2 Primary contact: Please list the name, phone number and email of a preferred contact within your company in case the DNREC needs to contact you regarding this permit application.

ROBERT WHITING, PRESIDENT
302-325-9880
BOBW@ULTRACHEMINC.COM

2.3 Authorized agent (if any):

Name: NO AGENT
Address:
Telephone:
Fax:

If you have an authorized agent for this permit application process, provide written authorization from client for being the authorized agent.

2.4 Project property location (street address):

900 CENTERPOINT BLVD
NEW CASTLE, DE 19720

2.5 In a separate attachment, provide a general map of appropriate scale to clearly show the project site.

Attached.

2.6 Is the applicant claiming confidentiality in any section of their application?

No

PART 3

PROJECT SUMMARY

Provide a one-page summary describing the proposed project. Include a brief quantitative description of the anticipated environmental impacts, and how the Environmental Offset Proposal will "clearly and demonstrably" more than offset any negative impacts.

Ultrachem Inc is a blender of synthetic lubricants with a growing business that has just started to approach the previous limits of CZP #282 for 600,000 gallons annually. As business increases we need to increase our permit capacity to 1,500,000 gallons for future growth. The materials we blend are basic polyalphaolefins (PAO), diesters, polyol esters (pentaerythritol POE), polyalkylene glycols (PAG) and silicone. The process temperatures are anywhere from ambient to 200°F maximum. There are zero VOC compounds emitted as part of the process. No odors leave our facility.

Offset

In 2012 Ultrachem Inc installed a 770 panel 185 kW solar photovoltaic system on the roof of the existing building to provide clean energy. As no new construction is planned and there have been no adverse effects on the environment we do not anticipate any environmental impacts.

PART 4

PROJECT PROPERTY RECORD AND
EVIDENCE OF LOCAL ZONING AND PLANNING APPROVAL

PROJECT PROPERTY RECORD

- 4.1 Name and address of project premises owner(s) of record:
Ultrachem Inc
900 Centerpoint Blvd
New Castle, DE 19720
- 4.2 Name and address of project premises equitable owner(s):
Robert Whiting, 900 Centerpoint Blvd, New Castle, DE 19720
John Schoff, 900 Centerpoint Blvd, New Castle, DE 19720
Bruce Jewett, 900 Centerpoint Blvd, New Castle, DE 19720
- 4.3 Name and address of lessee(s):
No lessee
- 4.4 Is the project premises under option by permit applicant?
No option
- 4.5 What is the present zoning of the land for this entire project site?
City of New Castle Zone "I".

EVIDENCE OF LOCAL ZONING AND PLANNING APPROVAL

I, Jeffrey A Bergstrom, for the City of New Castle
(Name of County, City of Town)

do hereby affirm that the project proposed by ULTRACHEM INC
(Name of Applicant)

located at 900 CENTERPOINT BLVD, NEW CASTLE, DE 19720, in
(Address)

the "I" Industrial zoning district is in

full compliance with the zoning code as it applies to this project.

The above named applicant's project is in compliance with the adopted comprehensive development plan for the geographic area within which the project will be located.

Jeffrey A Bergstrom
(Signature)

Building Official
(Title)

July 12, 2016
(Date)

This part is essential for a complete Coastal Zone Act Permit Application. No application will be considered administratively complete without it. While the applicant is strongly advised to use this form, the local zoning jurisdiction may utilize a different form or document to demonstrate "evidence of local zoning approval," provided such documents are signed and dated by the proper official.

PART 5

PROJECT OPERATIONS

5.1 Describe the characteristics of the manufactured product and all the process and/or assembly operations utilized by the proposed project. Include in the description (use attachments if necessary):

- a. The raw materials, intermediate products, by-products and final products and characteristics of each. Review any materials' risk of carcinogenicity, toxicity, mutagenicity and/or the potential to contribute to the formation of smog. Provide material safety data sheets (MSDS) if available; Raw materials include synthetic base fluids including Group III, PAO (polyalphaolefin), PAG (polyalkylene glycol), various diesters, polyol esters and silicone along with a variety of additives including anti-wear, extreme pressure, metal deactivators, foam suppressants, anti-oxidants, viscosity improvers and others.
- b. the step-by-step procedures or processes for manufacturing and/or assembling the product(s). Provide a flow diagram to illustrate procedures;
- c. the nature of the materials mentioned above in 4.1(a) as to whether or not the materials require special means of storage or handling;

No special storage or handling.

- d. list the machinery (new and/or existing) to be utilized by this project;

Seven indoor storage tanks of 8,000 gallons each piped to dispense into blend tanks.

Six indoor blending tanks of 2,300 gallons/each and each have a 400 gallon additive tank.

Two 1,100 gallon blending tanks, each with a 200 gallon additive tank.

Two 550 gallon blending tanks, each with a 110 gallon additive tank.

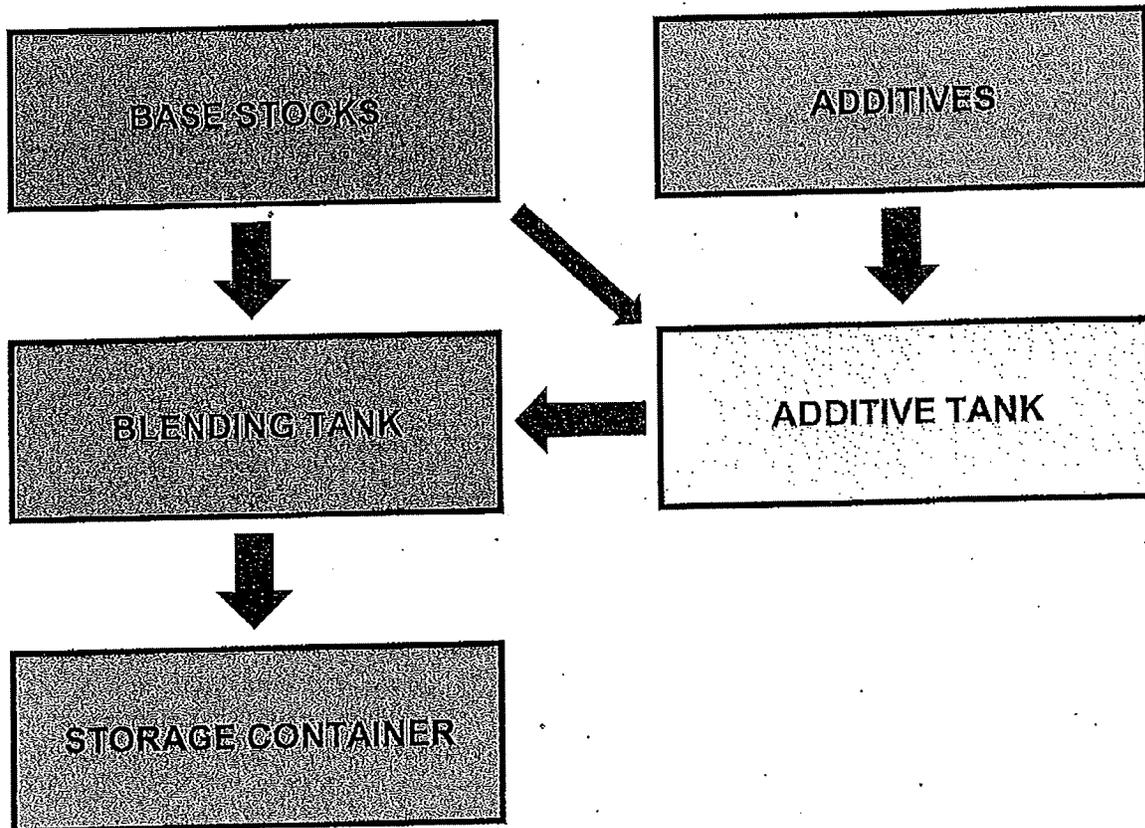
One 330 gallon blending tanks, with a 70 gallon additive tank.

Lightning mixers and immersion heaters, segregated by chemistry are on each additive tank. 10 micron filters are used on each blending tank.

Five forklifts are in use (propane powered).

- e. list any new buildings or other facilities to be utilized;

No new construction.



Base fluids are pumped from storage tanks, totes or drums into a blending tank. Twenty percent of the required base stock amount is pumped into the adjoining additive tank. If heat is required, it is heated to a maximum of 160-200F. Once the specified temperature is reached, the additives are introduced to the additive tank and mixed until dissolved. The base fluid and additive mixture is then pumped into the main blending tank and mixed for 15 minutes or as specified. QC is run on a sample from the tank. Once the mixture passes QC the product is pumped from the blending tank through a filtration system and dispensed to storage containers.

- f. list the size and contents of any anticipated aboveground or underground storage tank systems that may be constructed or utilized in support of facility operations;

No new tanks at this time. No below ground tank storage.

- g. if this project represents an increase or decrease in production at an already existing facility, what will be the new rate of maximum production? 28,847 gallons per week = 1.5 million gallons/year.

- h. if this project represents a totally new facility at a new or existing site, what will be the maximum production rate?

No new facility.

5.2 Describe daily hours of plant operations and the number of operating shifts.
8:30 am to 4:30 pm, Monday-Friday. One shift with some plant operations starting at 5:00 am.

5.3 Provide a site plan of this project with:

- a. a north arrow;
- b. a scale of not less than one inch to 200 feet;
- c. identity of the person responsible for the plan, including any licenses and their numbers;
Robert Whiting, 302-325-9880 x224
- d. the acreage of the applicant's entire property and acreage of the proposed project;
- e. property lines of entire property;
- f. lines designating the proposed project area for which application is being made, clearly distinguished from present facilities and operating areas (if any);
- g. existing and proposed roads, railroads, parking and loading areas, piers, wharfs, and other transportation facilities;
- h. existing water bodies and wetlands and proposed dredge and fill areas, and;

- i. existing and proposed drainage ways, gas, electric, sewer, water, roads, and other rights-of-way.

5.4 How many acres of land in total are required for this proposed project?

Existing/ currently utilized/ developed land: 2.82 existing acres.

New land: No New Land

5.5 Has the property been involved with a state or federal site cleanup program such as Superfund, Brownfields, HSCA Voluntary Cleanup Program, RCRA Corrective Action, Aboveground or Underground Storage Tank Cleanup Programs? If so please specify which program.

No.

5.6 With regards to environmental cleanup actions, has a Uniform Environmental Covenant, Final Plan of Remedial Action, or no further action letter been issued by the Department? If so are the planned construction activities consistent with the requirements or conditions stated in these documents?

There have been no remedial actions or cleanups.

PART 6A

ENVIRONMENTAL IMPACTS

Air Quality

6.1 Describe project emissions (new, as well as any increase or decrease over current emissions) by type and amount under maximum operating conditions:

Pollutant	Existing Emissions		Net Increase/Decrease		New Total Emissions		Percent Change (compare tons/year)
	Lbs/day	Tons/year	Lbs/day	Tons/year	Lbs/day	Tons/year	
VOC	0.35	0.046	0.525	0.069	0.875	0.113	150%

6.2 Describe how the above emissions change in the event of a mechanical malfunction or human error.

There would be no change.

6.3 Describe any pollution control measures to be utilized to control emissions to the levels cited above in 5.1.

No additional measures.

6.4 Show evidence that applicant has, or will have, the ability to maintain and utilize this equipment listed in 5.3 in a consistently proper and efficient manner. (For example, provide college transcripts and/or records of training courses and summary of experience with this pollution control equipment of person(s) responsible for pollution control equipment, and/or provide copies of contracts with pollution control firms to be responsible for maintaining and utilizing this equipment.)

We have been successfully maintaining and utilizing this facility and all of its contents for 20 years with a variety of personnel. We are an ISO 9001:2015 registered company. All equipment is calibrated on a strict schedule consistent with our ISO reporting.

Water Quality

6.5 Describe wastewater discharge (new, as well as any increase or decrease over current discharge levels) due to project operations:

Pollutant	Current Discharge Concentration (ppm)	New or Changed Discharge Concentration (ppm)	Current Discharge		Net Increase/Decrease		New Total Emissions	
			Lbs/day	Tons/year	Lbs/day	Tons/year	Lbs/day	Tons/year
None	None	None	None	None	None	None	None	None

6.6 Describe the current method of employee sanitary wastewater disposal and any proposed changes to that system due to this proposed project.

The only water utilized is in the bathrooms and one laboratory sink and dishwasher for labware and one break room (kitchenette) sink. All water is discharged through the sewer.

6.7 Identify the number, location, and name of receiving water outfall(s) of any and all process wastewater discharge (new or current) affected by this proposed project. Provide NPDES Permit Numbers for each discharge affected.

There is no process water or wastewater.

6.8 If any effluent is discharged into a public sewer system, is there any pretreatment program? If so, describe the program.

Only effluent is in bathrooms or lab sink as noted above.

6.9 Stormwater:

- a. Identify the number, location, and name of receiving waters of stormwater discharges. Provide permit number for each discharge.
- b. Describe the sources of stormwater run-off (roofs, storage piles, parking lots, etc).
- c. Describe the amount of stormwater run-off increase over current levels that will result from the proposed project.

- d. Describe any pollutants likely to be in the stormwater.
- e. Describe any pollution control device(s) or management technique(s) to be used to reduce the amount of stormwater generated, and devices to improve the quality of the stormwater run-off prior to discharge.
- f. Describe any new or improved stormwater drainage system required to safely carry off stormwater without flooding project site or neighboring areas down gradient.

6.10 Will this project use a new water intake device, or increase the use (flow) from an existing intake device?

YES

NO

If yes, state:

- a. the volume of water to be withdrawn, and;
- b. describe what will be done to prevent entrainment and/or entrapment of aquatic life by the intake device.

6.11 Will this proposed project result in a thermal discharge of water, or an increase in the flow or temperature of a current thermal discharge?

YES

NO

If yes, state:

- a. the volume of the new flow or increase from the existing thermal discharge, both in flow and amount of heat;
- b. how warm will the water be when it is discharged into a receiving waterway, discharge canal, or ditch, and what will be the difference in discharge temperature and ambient temperature (delta T) at various seasons of the year after all cooling water mechanisms have been applied to the hot water?
- c. the equipment and/or management techniques that will be used to reduce the thermal load of the discharge water.

6.12 Will any proposed new discharge or change in existing discharge cause, or have potential to cause, or contribute to, the exceedance of applicable criteria appearing in the "State of Delaware Surface Water Quality Standards"?

No

6.13 Describe any oils discharged to surface waters due to this proposed project.

None

6.14 Describe any settleable or floating solid wastes discharged to surface waters due to this project.

None

6.15 Show evidence that the applicant has, or will have, the ability to maintain and utilize any water pollution control equipment listed in questions 5.5 through 5.14 in a consistently proper and efficient manner. (For example, provide operator license numbers, college transcripts and/or training courses and summary of prior experience with this pollution control equipment of person(s) responsible for pollution control equipment, and/or provide copies of contracts with pollution control firms.)

No water pollution control equipment exists.

6.16 Estimate the amount of water to be used for each specified purpose including cooling water. State daily and maximum water use in the unit of gallons per day for each purpose and source of water. State if water use will vary with the seasons, time of day, or other factors.

None

6.17 Identify the source of water needed for the proposed project, including potable water supplies.

None

6.18 Are wells going to be used?

No

Solid Waste

6.19 Will this project result in the generation of any solid waste?

Yes

If yes, describe each type and volume of any solid waste (including biowastes) generated by this project, and the means used to transport, store, and dispose of the waste(s).

There will be trash from the office carried away from dumpster on site weekly by Waste Management. 2x/year about 1,000 gallons of flush oil wastes are disposed of by licensed disposal carriers (Heritage Crystal Clean Inc). Waste is not hazardous.

6.20 Will there be any on-site recycling, re-use, or reclamation of solid wastes generated by this project?

No

6.21 Will any waste material generated by this project be destroyed on-site?

No

Hazardous Waste

6.22 Will this proposed project result in the generation of any hazardous waste as defined by the "Delaware Regulations Governing Hazardous Waste"?

No

6.23 Describe the transport of any hazardous waste and list the permitted hazardous waste haulers that will be utilized.

Waste is not hazardous and waste hauler for flush oil waste is Heritage Crystal Clean. All manifests are recorded and stored on site.

6.24 Will the proposed project cause the applicant to store, treat, and/or dispose of hazardous waste?

No

6.25 Does the applicant currently generate any hazardous waste at this site?

No

Habitat Protection

6.26 What is the current use of the land that is to be used for the proposed project?
Current use will not change. It is currently a warehouse and blending facility for synthetic lubricants.

6.27 Will the proposed project result in the loss of any wetland habitat?
No

6.28 Will any wastewater and/or stormwater be discharged into a wetland?
No

6.29 Will the proposed project result in the loss of any undisturbed natural habitat or public use of tidal waters?
No

6.30 Do threatened or endangered species (as defined by the DNREC and/or the Federal Endangered Species Act) exist at the site of the proposed project, or immediately adjacent to it?
No

6.31 Will this proposed project have any effect on these threatened or endangered species (as defined by the DNREC and/or the Federal Endangered Species Act).
No

6.32 What assurances can be made that no threatened or endangered species exist on the proposed project site?
There are none there now.

6.33 Describe any filling, dredging, or draining that may affect nearby wetlands or waterways.

No construction, filling, dredging or draining will take place.

6.34 If dredging is proposed, how much will occur and where will the dredged materials go for disposal?
No dredging.

Other Environmental Effects

6.35 Describe any noticeable effects of the proposed project site including: heat, glare, noise, vibration, radiation, electromagnetic interference, odors, and other effects.

No construction.

6.36 Describe what will be done to minimize and monitor such effects.

No construction.

6.37 Describe any effect this proposed project will have on public access to tidal waters.

No construction = no effect

6.38 Provide a thorough scenario of the proposed project's potential to pollute should a major equipment malfunction or human error occur, including a description of backup controls, backup power, and safety provisions planned for this project to minimize any such accidents.

A Spill Prevention Plan is in place and there have been no spills since inception in 1996.

6.39 Describe how the air, water, solid and hazardous waste streams, emissions, or discharge change in the event of a major mechanical malfunction or human error.

The materials being mixed are not considered hazardous and many are food grade H-1 quality. There would be no change from current conditions.

PART 6B

ENVIRONMENTAL OFFSET PROPOSAL REDUCTION CLAIM

Is applicant claiming the right to have a reduced offset proposal due to past voluntary improvements as defined in the “Regulations Governing Delaware’s Coastal Zone”?

If yes, provide an attachment to the application presenting sufficient tangible documentation to support your claim.

PART 6C

ENVIRONMENTAL OFFSET PROPOSAL

If the applicant or the Department finds that an Environmental Offset Proposal is required, the proposed offset project shall include all the information needed to clearly establish:

- A. A qualitative and quantitative description of how the offset project will “*clearly and demonstrably*” more than offset the negative impacts from the proposed project.
- B. How and in what period of time the offset project will be carried out.
- C. What the environmental benefits will be and when they will be achieved.
- D. What scientific evidence there is concerning the efficacy of the offset project in producing its intended results.
- E. How the success or failure of the offset project will be measured in both the short and long term.
- F. What, if any, negative impacts are associated with the offset project.
- G. How the offset will impact the attainment of the Department’s environmental goals for the Coastal Zone and the environmental indicators used to assess long-term environmental quality within the Coastal Zone.

Ultrachem will replace a 2011 Toyota Camry sales vehicle with an electric hybrid vehicle (2017 Ford Fusion Hybrid or equivalent) by December 31, 2016.

Environmental offsets are as follows, based on average travel of 19,000 miles/year:

<u>Reduction</u>	<u>2011 Camry</u>	<u>2017 Fusion Hybrid</u>	
MPG Rating ¹	26 mpg	42 mpg	
VOC emissions ² lb/yr	40.22 lb/yr	24.66 lb/yr	15.56
NOX emissions lb/yr	26.97 lb/yr	16.53 lb/yr	10.44
CO2 emissions	14,335.36 lb/yr	8,786.19 lb/yr	5,549.17 lb/yr

Maximum potential VOC emissions increase from manufacturing is 137 lbs/year. This is being offset by 15.56 lbs/year direct VOC to VOC emissions plus an additional 10.44 lbs/year of NOX emissions (ozone precursor) and 5,549.17 lbs/year of CO2 emissions (greenhouse gas).

Based on current miles driven, over a 6-year vehicle life, ozone precursors will be reduced 156 lbs. In addition, production will not be increased immediately, so emissions reductions will begin occurring prior to any increase in emissions from manufacturing.

Given the increase in production, there is a possibility that the sales vehicle will be used even more heavily and driven more annual miles, leading to larger annual reductions from using the hybrid vehicle in place of a standard engine vehicle.

Success will be measured based on emissions reductions calculations from annual miles driven as compared to VOC emissions calculations based on actual production.

There are no negative impacts associated with this offset project.

The offset project will improve air quality within the Coastal Zone.

Note: There are no offset requirements under the Delaware air regulations, and the VOC emissions are below the permitting thresholds.

¹<https://www.fueleconomy.gov/trip/#?pc=55&id1=37383&yr1=2017&mk1=Ford&md1=Fusion%20Hybrid%20FWD&mpg1=42&fp1=2.15&id2=30087&yr2=2011&mk2=Toyota&md2=Camry&mpg2=26&fp2=2.15>

² VOC, NOX and CO2 calculations are prorated for MPG and miles travelled from "Average Annual Emissions and Fuel Consumption for Gasoline-Fueled Passenger Cars and Light Trucks" US EPA <https://www3.epa.gov/otaq/consumer/420f08024.pdf>

Additional Offset Proposal Information for the Applicant

1. The offset proposals must “*clearly and demonstrably*”¹ more than offset any new pollution from the applicant’s proposed project. The applicant can claim (with documentation) evidence of past voluntary environmental investments (as defined in the Regulations) implemented prior to the time of application. Where the Department concurs with the applicant that such has occurred, the positive environmental improvement of the offset proposal against the new negative impact can be somewhat reduced.
2. The applicant must complete the Coastal Zone Environmental Impact Offset Matrix. This matrix can be found on the CZA web page (<http://www.dnrec.delaware.gov/Admin/CZA/CZAHome.htm>, or by clicking on [this link](#). On page one, the applicant must list all environmental impacts in the column labeled “Describe Environmental Impacts.” In the column to the immediate right, the applicant should reference the page number of the application or attachment which documents each impact listed. In the “Describe Environmental Offset Proposal” column, applicant must state what action is offsetting the impact. The offset action shall be referenced by page number in the column to the right to show how the offset will work. The applicant shall not utilize the far right column. *Please ensure the matrix is complete, detailed, and as specific as possible, given the allotted space. Also, thoroughly proof-read to ensure there are no spelling or grammatical errors.* The applicant must submit a completed matrix both in hardcopy and electronic form.
3. Please note: the entire offset proposal, including the matrix, shall be available to the public, as well as the evidence of past voluntary environmental enhancements.

¹ For purposes of this requirement, the DNREC will interpret the phrase “clearly and demonstrably” to mean an offset proposal that is obviously so beneficial without detailed technical argument or debate. The positive environmental benefits must be obviously more beneficial to the environment than the new pollution that minimal technical review is required by the Department and the public to confirm such. The total project must have a positive environmental impact. The burden of proof is on the applicant.

PART 7

ECONOMIC EFFECTS

Construction

- 7.1 Estimate the total number of workers for project construction and the number to be hired in Delaware.
No construction intended.
- 7.2 Estimate the weekly construction payroll.
No construction intended.
- 7.3 Estimate the value of construction supplies and services to be purchased in Delaware.
No construction intended.
- 7.4 State the expected dates of construction initiation and completion.
No construction intended.
- 7.5 Estimate the economic impact from the loss of natural habitat, or any adverse economic effects from degraded water or air quality from the project on individuals who are directly or indirectly dependent on that habitat or air or water quality (e.g. commercial fishermen, waterfowl guides, trappers, fishing guides, charter or head boat operators, and bait and tackle dealers).

No loss of natural habitat or economic impact

Operations

- 7.6 State the number of new employees to be hired as a direct result of this proposed project and how many of them will be existing Delaware residents and how many will be transferred in from other states.

2 local plant employees and 2 transfers from out of state.

- 7.7 If employment attributable to the proposed project will vary on a seasonal or periodic basis, explain the variation and estimate the number of employees involved.

This is not seasonal

- 7.8 Estimate the percent distribution of annual wages and salaries (based on regular working hours) for employees attributable to this project:

<u>Wage/salary</u>	<u>Percent of employees</u>
<\$10,000	/
\$10,000-14,999	
\$15,000-24,999	
\$25,000-34,999	
\$35,000-49,999	75%
\$50,000-64,999	
\$65,000-74,999	25%
\$75,000-99,999	
>\$100,000	

- 7.9 Estimate the annual taxes to be paid in Delaware attributable to this proposed project:

State personal income taxes:	\$12,300
State corporate income taxes	\$1,020,000
County and school district taxes:	\$2,000
Municipal taxes:	\$UK

PART 8

SUPPORTING FACILITIES REQUIREMENTS

Describe the number and type of new supporting facilities and services that will be required as a result of the proposed project, including, but not limited to:

a. Roads

None

b. Bridges

None

c. Piers and/or docks

None

d. Railroads

None

e. Microwave towers

None

f. Special fire protection services not now available

None

g. Traffic signals

None

h. Sewer expansion

None

i. Energy related facilities expansion

None

j. Pipelines

None

PART 9

AESTHETIC EFFECTS

- 9.1 Describe whether the proposed project will be located on a site readily visible from a public road, residential area, public park, or other public meeting place (such as schools or cultural centers).

There will be no construction. Site is not visible from RT 273.

- 9.2 Is the project site location within a half mile of a place of historic or scenic value?

Yes, ½ mile of Penn Farm owned by City of New Castle on RT 273.

- 9.3 Describe any planned attempt to make the proposed facility aesthetically compatible with its neighboring land uses. Include schematic plans and/or drawings of the proposed project after it is complete, including any landscaping and screening.

There will be no construction.

PART 10

EFFECTS ON NEIGHBORING LAND USES

10.1 How close is the nearest year-round residence to the site of this proposed project?
½ mile minimum.

10.2 Will this proposed project interfere with the public's use of existing public or private recreational facilities or resources?

No

10.3 Will the proposed project utilize or interfere with agricultural areas?

No

10.4 Is there any possibility that the proposed project could interfere with a nearby existing business, commercial or manufacturing use?

No

END OF APPLICATION

ATTACHMENTS TO FOLLOW

COASTAL ZONE ENVIRONMENTAL IMPACT OFFSET MATRIX

Applicant: Ultrachem Inc
 Project: Ultrachem Production Increase
 CZA Offset Review Reference: (DNRFC Only)

Page 1 of 1
 Date: July 13, 2016
 Application Number: 15-2016
 Offset Review Date: (DNRFC Use Only)
 Matrix Amended: (DNRFC Use Only)

ENVIRONMENTAL IMPACTS	(Applicant's Use) DESCRIBE ENVIRONMENTAL IMPACTS	PAGE NO.	(Applicant's Use) DESCRIBE ENVIRONMENTAL OFFSET PROPOSAL	PAGE NO.	OFFSET SUFFICIENCY Yes, No or N/A
Air Quality (Applicant to List Below by Parameter) VOC	137 lbs-year VOC emissions	11	Solar Panels	20	
Water Quality Surface	N/A		Replacement of conventional vehicle with electric hybrid vehicle	21	
Groundwater					
Water Quality Surface	N/A				
Groundwater					
Water Use For: Processing	N/A				
Cooling					
Effluent Removal					
Solid Waste	N/A				
Hazardous Waste	N/A				
Habitat					
Wetlands	N/A				
Fresh Ponds					
Drainage/Flood Control	N/A				
Erosion?	N/A				
Land Use Effects	N/A				
Glare					
Heat					
Noise					
Odors					
Vibration					
Radiation					
Electro-Magnetic Interference					
Other Effects					
Threatened & Endangered Species	N/A				
Impacts From:					
Raw Material	N/A				
Intermediate Products					
By-Products					
Final Products					

1 See paragraph 1.1.b in "Secondary Assessment"