



Shell Chemical Appalachia LLC
300 Frankfort Rd
Monaca, PA 15061

March 6, 2024

Mark Gorog, P.E.
Air Quality Program Regional Manager
Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222

**RE: Shell Chemical Appalachia LLC
Shell Polymers Monaca Site
Potter and Center Townships, Beaver County
Plan Approval No. 04-00740B
Plan Approval Construction Extension Request**

Dear Mr. Gorog:

Shell Chemical Appalachia LLC (“Shell”) is requesting an extension of Plan Approval 04-00740B along with our other associated Plan Approvals (04-00740A and 04-00740C) to extend temporary operation of commenced sources and to authorize the continued commissioning of sources and controls at the above-referenced facility. PA-04-00740A was originally issued to Shell on June 18, 2015, authorizing the construction of a “Petrochemicals Complex, Ethylene and Polyethylene Manufacturing” at this location. Shell has since renamed this site as the “Shell Polymers Monaca Site”. Construction of permanent foundations for authorized sources and controls began on February 10, 2016, within 18 months of issuance of PA-04-00740A, and construction has continued without an 18-month lapse. High voltage equipment commenced operation on November 12, 2019 with the remaining emission sources commencing operation in 2023 to begin bringing them into full operation.

Enclosed, please find the following:

- Plan Approval Extension Form (completed and signed)
- Air Pollution Control Act Compliance Review Supplemental Form (completed and signed)
- Application Fee Check (\$750 made out to Commonwealth of PA)
- Justification for the extension
- Schedule for the completion of the construction

Please contact me at 724-709-2828 or william.watson@shell.com if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Watson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

William Watson
General Manager



PLAN APPROVAL EXTENSION FORM

Current Plan Approval Information			
Plan Approval No.: 04-00740B	Owner Name: Shell Chemical Appalachia LLC		
Original Issued Date: 2/18/2021	Plant Name: Shell Polymers Monaca Site		
Current Expiration Date: 4/28/2024	Contact Name: William Watson		
Project Commenced Date: 2/10/2016	Contact Title: Operations Manager		
Contact Telephone: 724-709-2825	Contact Email: william.watson@shell.com		
Municipality: Potter & Center Twp	Mailing Address: 300 Frankfort Road		
County: Beaver	City: Monaca	State: PA	Zip Code: 15061

List of Source(s) and/or Air Cleaning Devices Specified in the Plan Approval (attach additional pages as needed)				
Source ID	Source Name	Air Cleaning Device	Date of Completion	Operational Commencement Date
	See attached schedule			

Reason for Extension (see instructions)	
<input checked="" type="checkbox"/>	(A) Plan Approval Extension to continue construction, modification, reactivation of the source(s) or installation of air cleaning device(s) in accordance with 25 Pa. Code §127.13(a).
<input checked="" type="checkbox"/>	(B) Plan Approval Extension to extend temporary operation to facilitate the shake-down of sources and air cleaning devices, to permit operation pending issuance of a permit under Subchapter F (relating to operating permit requirements) or Subchapter G (relating to Title V operating permits) or to allow the evaluation of the source(s) for compliance with applicable regulations and requirements in accordance with 25 Pa. Code §127.12b(d).
<input type="checkbox"/>	(C) Other (including the extension of the 18-month period specified in 25 Pa. Code §127.13(b)).

Checklist	
<input checked="" type="checkbox"/>	Included Air Quality Fees Schedule
<input type="checkbox"/>	Fees are not required in accordance with 25 Pa. Code § 127.702(i)(3); justification included
<input checked="" type="checkbox"/>	Included justification for the extension request
<input checked="" type="checkbox"/>	Included complete Compliance Review Form or Compliance Review Supplemental Form if one has not been submitted within 6 months from the date of this application
<input checked="" type="checkbox"/>	Plan Approval Extension Form signed by a responsible official

Certification of Truth, Accuracy and Completeness

I certify that, subject to the penalties of Title 18 Pa. C.S.A. Section 4904 and 35 P.S. Section 4009(b)(2), I am the responsible official having primary responsibility for the design and operation of the facilities to which this application applies and that the information provided in this application is true, accurate, and complete to the best of my knowledge, information, and belief formed after reasonable inquiry.

Name (Type): William Watson	Title: Operations Manager
Name (Signed):	Date: 3/7/2024



PLAN APPROVAL EXTENSION FORM INSTRUCTIONS

A plan approval is issued with a term that provides a sufficient and reasonable amount of time to complete the project as described within the plan approval application. Plan Approvals granted by the Department will be valid for a limited time, as specified by the Department in the approval. Except as provided in 25 Pa. Code §§ 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation, or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(A) Plan Approval Extension to continue construction, modification, reactivation of the source(s) or installation of air cleaning device(s) in accordance with 25 Pa. Code §127.13(a).

If construction has commenced but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be submitted at least thirty (30) days prior to the expiration date. The request for an extension shall include a justification for the extension, the specific sources for which the extension of construction or modification is needed, and a schedule for the completion of the construction.

(B) Plan Approval Extension to extend temporary operation to facilitate the shake-down of sources and air cleaning devices, to permit operation pending issuance of a permit under Subchapter F (relating to operating permit requirements) or Subchapter G (relating to Title V operating permits) or to allow the evaluation of the source(s) for compliance with applicable regulations and requirements in accordance with 25 Pa. Code §127.12b(d).

Pursuant to 25 Pa. Code § 127.12b(d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted to the Department at least thirty (30) days prior to the end of the initial 180-day shakedown period and shall include the specific source(s) for which the extension of temporary operation authorization is needed, a description of the compliance status of the source(s), a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(C) Other (including the extension of the 18-month period specified in 25 Pa. Code §127.13(b)).

If the construction, modification, or installation is not commenced within 18-months of the issuance of the plan approval or if there is more than an 18-month lapse in construction, modification, or installation, a new plan approval application that meets the requirements of Subchapters B, D, and E (relating to plan approval requirements; prevention of significant deterioration of air quality; and new source review) shall be submitted unless it is extended. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

Except for the 18-month extension, the Department will publish a notice of its action in the *Pennsylvania Bulletin*. The 18-month extension, if approved, will require the applicant to publish the newspaper notices in accordance with 25 Pa. Code § 127.44 (relating to public notice).

To request a plan approval extension, the applicant shall complete all information as requested in the plan approval extension form and have it signed by a "responsible official" as defined in 25 Pa. Code § 121.1 (relating to definitions). A submission checklist is provided to ensure all required items are included in submitting the plan approval extension form.

The extension fee will not apply if an extension is required through no fault of the applicant. See 25 Pa. Code § 127.702(i)(3). For example, the applicant is waiting for the Department's review of stack test reports, CEM certification, or Department's initial inspection. Please include an explanation of why fees are not applicable along with your justification for the extension, including any relevant submittal dates of reports or applications sent to the Department.

SECTION B. GENERAL INFORMATION REGARDING "APPLICANT"

If applicant is a corporation or a division or other unit of a corporation, provide the names, principal places of business, state of incorporation, and taxpayer ID numbers of all domestic and foreign parent corporations (including the ultimate parent corporation), and all domestic and foreign subsidiary corporations of the ultimate parent corporation with operations in Pennsylvania. Please include all corporate divisions or units, (whether incorporated or unincorporated) and privately held corporations. (A diagram of corporate relationships may be provided to illustrate corporate relationships.) Attach additional sheets as necessary.

*** Supplemental ***

List only those changes since the date of the last original submission.

Unit Name	Principal Places of Business	State of Incorporation	Taxpayer ID	Relationship to Applicant
No Changes				

SECTION C. INFORMATION REGARDING APPLICANT & ITS "RELATED PARTIES"

1. Pennsylvania Facilities. List the name and location (mailing address, municipality, county), telephone number, and relationship to applicant (parent, subsidiary or general partner) of all Related Parties' places of business, and facilities in Pennsylvania. Attach additional sheets as necessary.

*** Supplemental ***

List only those changes since the date of the last original submission.

Unit Name	Street Business	County and Municipality	Telephone No.	Relationship to Applicant
No Changes				

2. General Partners. Provide the names and business addresses of all general partners of the applicant and parent corporation, if any.

*** Supplemental ***

List only those changes since the date of the last original submission.

Name	Business Address
No Changes	

3. Management Responsibility. Provide the names and business of persons with overall management responsibility for the process being permitted (i.e., plant manager).

*** Supplemental ***

List only those changes since the date of the last original submission.

Name	Business Address
William Watson Operations Manager Shell Chemical Appalachia LLC	Shell Chemical Appalachia LLC 300 Frankfort Road Monaca, PA 15061
Kimberly Kaal Environmental Manager/Attorney-in-Fact Shell Chemical Appalachia LLC	Shell Chemical Appalachia LLC 300 Frankfort Road Monaca, PA 15061

4. Plan Approvals or Operating Permits. List all plan approvals or operating permits issued by the Department or an approved local air pollution control agency under the APCA to the applicant or related parties that are currently in effect or have been in effect at any time five years prior to the date on which this form is notarized. This list shall include the plan approval and operating permit numbers, locations, issuance and expiration dates. Attach additional sheets as necessary.

* * * Supplemental * * *

List only those changes since the date of the last original submission.

Source	Plan Approval Operating Permit Number	Location	Issuance Date	Expiration Date
No Changes				

SECTION D. COMPLIANCE BACKGROUND

Note: Copies of specific documents, if applicable, must be made available to the Department upon its request.)

1. Documented Conduct. List all documented conduct of violations or enforcement actions identified by the Department pursuant to the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. Attach additional sheets as necessary. See the definition of “documented conduct” for further clarification. Unless specifically directed by the Department, deviations which have been previously reported to the Department in writing, relating to monitoring and reporting, need not be reported.

*** Supplemental ***

List only those changes since the date of the last original submission.

Date	Location	Plan Approval/ Operating Permit#	Nature of Documented Conduct	Type of Department Action	Status Litigation; Existing / Continuing; or corrected/Date	Dollar Amount Penalty
05/24/2023	Shell Polymers Monaca	PA-04-00740A/B/C	Various NOV's and Exceedances of 12-Month Emission Limitations in 2022 and 2023	Consent Order and Agreement	Signed COA and implementing required terms and conditions	<ul style="list-style-type: none"> • \$0: Monthly emissions for October and November 2023 • \$7,563.60: Monthly emissions for December 2023 • \$90,484.90: Monthly emissions for January 2024
12/4/2023	Shell Polymers Monaca	PA-04-00740A/B/C	Visible Emissions >5 min in consecutive 2 hrs. MPGF, Source C204B, and TEGF A C205A and HPEF C205C	Notice of Violation	Pending	TBD
3/6/2024	Shell Polymers Monaca	PA-04-00740A/B/C	Visible Emissions >5 min in consecutive 2 hrs. MPGF, Source TEGFA C205A	Notice of Violation	Pending	TBD

CONTINUING OBLIGATION: Applicant is under a continuing obligation to update this form using the Compliance Review Supplemental Form if any additional documented conduct occurs or related parties develop between the date of submission and Department action on its application

2. Incidents of Deviation. List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of “deviations” for further clarification.

* * * Supplemental * * *

List only those changes since the date of the last original submission.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Existing/Continuing; or Corrected Date
Refer to CEMS reports	Shell Polymers Monaca	PA-04-00740A/C	Cogeneration Units: NOx/CO Excess Emissions, as reported in quarterly CEMS reports.	Corrected after each incident.
Refer to CEMS reports	Shell Polymers Monaca	PA-04-00740A/C	Ethane Cracking Furnaces: NOx/CO Excess Emissions, as reported in quarterly CEMS reports.	Corrected after each incident.
1/14/2023 Furnace 5 2/17/2023 Furnace 4 3/9/2023 Furnace 4	Shell Polymers Monaca	PA-04-00740A/C	Ethane Cracking Furnaces: NH3 Excess Emissions.	Corrected after each incident.
10/7/2023 Cogen 2 10/8/2023 Cogen 2 10/8/2023 Cogen 3 10/9/2023 Cogen 2 10/10/2023 Cogen 2 10/11/2023 Cogen 2	Shell Polymers Monaca	PA-04-00740A/C	Cogeneration Units: NH3 Excess Emissions.	Corrected after each incident.
1/16/2023 1/17/2023 1/18/2023 2/8/2023 Test Dates	Shell Polymers Monaca	PA-04-00740A/C	Furnace stack test results not compliant for PM10 and PM2.5 on Furnaces 2, 3, 4, 6.	Updated test protocol submitted to PADEP; retest planned week of March 11, 2024. <i>This deviation was reported on previous Compliance Review Forms. This is not a new incident, just updating incident status.</i>
2022 to present	Shell Polymers Monaca	PA-04-00740A/C	Net Heating Value MPGF Ethylene Header. Periodically not meeting NHV of ≥ 200 Btu/scf in §60.18/§63.11 as an hourly average, as referenced in the Subpart Kb Initial Compliance Report dated 6/30/2023 and the report for Subpart VVa Part 60, Subpart UU Part 63 and Subpart SS Part 63 dated 1/30/2024.	Continuing deviation. Supplemental natural gas connection to be added to meet the required NHV. The parts have arrived, and installation expected by end of March 2024.
2022 to present	Shell Polymers Monaca	PA-04-00740A/C	Net Heating Value MPGF Ethylene Header. Periodically not meeting NHV of ≥ 500 Btu/scf (as a 3-hr average).	Continuing deviation. Supplemental natural gas connection to be added to meet the required NHV. The parts have arrived, and installation expected by end of March 2024.

2. Incidents of Deviation. List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

* * * Supplemental * * *

List only those changes since the date of the last original submission.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Existing/Continuing; or Corrected Date
8/30/2023	Shell Polymers Monaca	PA-04-00740A/C	Exit Velocity (Vtip) MPGF CVTO Trip Header. Did not meet Vtip limit in 40 CFR Part 63 Subparts YY and FFFF for one (1) 15-min block period.	This was reported as a deviation in the November 2023 Compliance Review Form submitted with GP1 application for temporary boiler. After further review, there was not a deviation on this day.
2022 to 7/5/2023	Shell Polymers Monaca	PA-04-00740A/C	Exit Velocity (Vtip) TEGFs A/B. Periodically not meeting requirements for Vtip in §60.18/§63.11, as referenced in the 1/31/2024 EMACT and 2/22/2024 MON Semi-Annual Reports.	Corrected. Per the manufacturer, the TEGFs were not designed to meet the exit velocity requirements in the various rules and a maximum exit velocity is not necessary to meet the guaranteed destruction efficiency. Starting July 6, 2023, the TEGFs should have been designated as <i>pressure-assisted multi-point</i> flares, where Vtip requirements are eliminated. A plan approval application to modify the incorrect citations will be submitted in the near future.
7/6/2023 to 2/15/2024	Shell Polymers Monaca	PA-04-00740A/C	Net Heating Value TEGFs A/B. Periodically not meeting requirements for NHV of ≥ 800 Btu/scf in 40 CFR Part 63 Subparts YY and FFFF as required for pressure-assisted multi-point flares, as referenced in the 1/31/2024 EMACT and 2/22/2024 MON Semi-Annual Reports.	Corrected. Added increased supplemental fuel gas and increased set point on/around 2/6/2024. Improving operational coordination for planned high nitrogen events.
6/19/2023 7/26/2023 12/28/2023	Shell Polymers Monaca	PA-04-00740A/C	Visible Emissions TEGF A. Visible emissions > 5 minutes in consecutive 2 hours, as referenced in the 1/31/2024 EMACT and 2/22/2024 MON Semi-Annual Reports.	Corrected. See Malfunction Report submitted on 6/22/2023 for both the 6/19/2023 and 7/26/2023 incidents, which address identical root causes and corrective actions. See Malfunction Report submitted on 1/29/2024 for the 12/28/2023 incident. <i>Note that previous Compliance Review Forms mistakenly had a date of 6/20/2023 for the 6/19/2023 incident. This is not a new incident.</i>
11/27/2023	Shell Polymers Monaca	PA-04-00740A/C	Heavy smoke CVTO for <1 min	Corrected. See Malfunction Report Dated 12/19/2023.
2/10/2024	Shell Polymers Monaca	PA-04-00740A/C	Heavy smoke CVTO for <3 min	Corrected. See Malfunction Report Dated 2/29/2024.

2. Incidents of Deviation. List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

* * * Supplemental * * *

List only those changes since the date of the last original submission.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Existing/Continuing; or Corrected Date
1/4/2023 to 1/10/2023	Shell Polymers Monaca	PA-04-00740A/C	Spent Caustic Thermal Oxidizer (SCTO) Downtime. Small amounts of excess emissions from FEOR A/B, recovered oil, and spent caustic storage tanks. The tanks are internal floating roof tanks with minimal uncontrolled emissions.	Corrected. See Malfunction Report dated 2/9/2023.
4/7/2023 (16.75 hrs) 9/3/2023 (1.6 hrs) 10/10/2023 to 10/11/2023 (<1 hr) 11/30/2023 to 12/1/2023 (26.5 hrs) 12/21/2023 to 12/21/2023 (0.583 hrs)	Shell Polymers Monaca	PA-04-00740A/C RfD 10277, Approval Date 8/9/2023 for WEMCO/EC-15	Spent Caustic Thermal Oxidizer (SCTO) Blower Downtime. Small amounts of excess emissions from FEOR A/B, recovered oil, spent caustic storage tanks, and temporary WEMCO and EC-15 Units due to blower issues where emissions did not go to the SCTO. The tanks are internal floating roof tanks with minimal uncontrolled emissions.	Corrected after each incident.
9/2022 to 1/10/2024	Shell Polymers Monaca	PA-04-00740A/C	C3+ liquids must be loaded out with vapor balance to pressurized storage tanks. Loadout of C3+ liquids result in or contributes to intermittent venting of tanks to HP Flares.	Corrected. Engineering improvement to loading process to minimize pressure testing of railcars and relief of C3+ spheres to HP Flares; Permitting correction to match facility design.
10/2022 to 10/2023	Shell Polymers Monaca	PA-04-00740A/C	Residual VOC Content Sampling for PE Unit. Missed the required sampling: PE 1: Dec 2022 (1 sample missed), Jan 2023 (1 sample missed), Feb 2023 (2 samples missed), Mar 2023 (2 samples missed), Jun 2023 (1 sample missed), Jul 2023 (2 samples missed), Aug 2023 (2 samples missed), Sep 2023 (1 sample missed). PE 2: Nov 2022 (1 sample missed), Feb 2023 (2 samples missed), Mar 2023 (1 sample missed), Jun 2023 (2 samples missed), Jul 2023 (4 samples missed), Aug 2023 (4 samples missed), Sep 2023 (2 samples missed).	Corrected. Increased sampling frequency, improved sampling procedures, and improved pellet grade tracking by October 2023. Note air emissions were calculated using the VOC limit of 50 ppmw for all produced polyethylene.

2. Incidents of Deviation. List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

* * * Supplemental * * *

List only those changes since the date of the last original submission.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Existing/Continuing; or Corrected Date
9/2022 to present	Shell Polymers Monaca	PA-04-00740A/C	Internal Floating Roof (IFR) annual inspections missed for the following tanks: T-64203 Light Gasoline, T-64302A Hexene, T-64302B Hexene, T-59708 Recovered Oil, T-53501 Spent Caustic, T-59707A Flow and Equalization Oil Removal (FEOR) A, and T-59707B FEOR B.	Updated procedures and inspections are scheduled for March 2024.

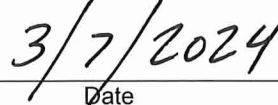
CONTINUING OBLIGATION: Applicant is under a continuing obligation to update this form using the Compliance Review Supplemental Form if any additional documented conduct occur or related parties develop between the date of submission and Department action on its application

VERIFICATION STATEMENT

Subject to the penalties of Title 18 Pa.C.S. Section 4904 and 35 P.S. Section 4009(b)(2), I verify under penalty of law that I am authorized to make this verification on behalf of the Applicant/Permittee. I further verify that the information contained in this Compliance Review Supplemental Form is true and complete to the best of my belief formed after reasonable inquiry. I further verify that reasonable procedures are in place to ensure that "documented conduct" and "deviations" as defined in 25 Pa Code Section 121.1 are identified and included in the information set forth in this Compliance Review Supplemental Form.



Signature



Date

William Watson

Name (Print or Type)

Operations Manager

Title

Attachment A

Plan Approval Extension Justification

Additional time is necessary to complete full commissioning of the air sources and controls, including required emission testing authorized under PA-04-00740A, B and C. PA-04-00740A was first issued on June 18, 2015 and PA-04-00740B and C were issued on February 18, 2021 with all three permits expiring on April 28, 2024. High voltage equipment operation first commenced on November 12, 2019 which is a source of SF6. On-site construction activities were suspended from March 18, 2020 until May 1, 2020 to implement mitigation measures in alignment with the CDC guidance in response to the COVID-19 global pandemic. Once the mitigation measures were implemented, major construction activities resumed at the Shell Polymers Monaca Site. While construction activities are now complete, emission testing of the remaining sources and air cleaning devices are anticipated through the first half of 2024 per our current schedule. Temporary operation of specific air sources and controls for final shakedown purposes is also expected to occur during this time period.

On February 22, 2024, Shell received a letter from PADEP requiring the submission of a Title V Operating Permit Application by June 21, 2024. Shell is preparing the application for submittal by this deadline.

Shell is required to request extension of the plan approvals until the Title V Operating Permit is issued. In accordance with PA-04-00740A, Section B, Condition #003 (d) we are requesting an extension of the 180-day shakedown period to continue temporary operation of sources that have commenced operation and for continued commissioning and emission testing activities of the remaining permitted sources and air cleaning devices.

Attachment B

List of Source(s) and/or Air Cleaning Devices Specified in Plan Approval No. 04-00740 A, B and C

Source ID	Source Name	Air Cleaning Device	Date of Completion	Operational Commencement Date
031	Ethane Cracking Furnace #1		July 6, 2022	July 30, 2022, lit burners to start dry out. Ethane feed in Sep. 5, 2022.
032	Ethane Cracking Furnace #2		July 6, 2022	May 27, 2022, lit burners to start dry out. Ethane feed in Sep. 13, 2022
033	Ethane Cracking Furnace #3		July 6, 2022	June 1, 2022, lit burners to start dry out. Ethane feed in Sep. 6, 2022
034	Ethane Cracking Furnace #4		July 6, 2022	August 17, 2022, lit burners to start dry out. Ethane feed in Sep. 17, 2022
035	Ethane Cracking Furnace #5		July 6, 2022	May 12, 2022, lit burners to start dry out. Ethane feed in Sep. 5, 2022
036	Ethane Cracking Furnace #6		July 6, 2022	May 6, 2022, lit burners to start dry out. Ethane feed in Sep. 25, 2022
037	Ethane Cracking Furnace #7		July 6, 2022	April 14, 2022, lit burners to start dry out. Ethane feed in Sep. 8, 2022
C031		SCR (Ethane Cracking Furnace #1)	August 15, 2022	August 15, 2022
C032		SCR (Ethane Cracking Furnace #2)	June 15, 2022	June 15, 2022
C033		SCR (Ethane Cracking Furnace #3)	June 19, 2022	June 19, 2022
C034		SCR (Ethane Cracking Furnace #4)	August 30, 2022	August 30, 2022
C035		SCR (Ethane Cracking Furnace #5)	May 22, 2022	May 22, 2022
C036		SCR (Ethane Cracking Furnace #6)	May 13, 2022	May 13, 2022
C037		SCR (Ethane Cracking Furnace #7)	April 22, 2022	April 22, 2022
101	Combustion Turbine/Duct Burner Unit #1		June 24, 2021	June 24, 2021

Attachment B

List of Source(s) and/or Air Cleaning Devices Specified in Plan Approval No. 04-00740 A, B and C

Source ID	Source Name	Air Cleaning Device	Date of Completion	Operational Commencement Date
102	Combustion Turbine/Duct Burner Unit #2		June 20, 2021	June 20, 2021
103	Combustion Turbine/Duct Burner Unit #3		June 30, 2021	June 30, 2021
C101		SCR (Unit #1)	July 2021	Sep 2021
C101A		Oxidation Catalyst (Unit #1)	July 2021	Sep 2021
C102		SCR (Unit #2)	July 2021	August 2021
C102A		Oxidation Catalyst (Unit #2)	July 2021	August 2021
C103		SCR (Unit #3)	July 2021	Sep 2021
C103A		Oxidation Catalyst (Unit #3)	July 2021	Sep 2021
104	Cogeneration Plant Cooling Tower(s)		June 20, 2021	June 20, 2021
C104		Drift Eliminators (Process Cooling Tower)	June 20, 2021	June 20, 2021
105 ^a	Diesel-Fired Emergency Generator Engines (2)		March 2, 2020	March 2, 2020
106	Fire Pump Engines (2)		Dec 4, 2020	Dec 4, 2020,
107 ^a	Natural Gas-Fired Emergency Generators (3)		March 2, 2020	March 2, 2020
201	Ethylene Manufacturing Line		July 6, 2022	September 7 2022 feed into ECU
202 ^b	Polyethylene Manufacturing Lines		July 6, 2022	See Note b
C202 ^b		Particulate Filters (PE MFG)	July 6, 2022	See Note b
203	Process Cooling Tower(s)		July 6, 2022, including chemical cleaning and passivation activities	September 7 2022 feed into ECU
C203		Drift Eliminators (Process Cooling Tower)	July 6, 2022	September 7 2022 feed into ECU
204	Low Pressure (LP) Header System		May 16, 2022	May 16, 2022
C204		LP System	May 16, 2022	May 16, 2022
C204A		LP Incinerator	March 31, 2022. Lit for initial dry out	March 31, 2022

Attachment B

List of Source(s) and/or Air Cleaning Devices Specified in Plan Approval No. 04-00740 A, B and C

Source ID	Source Name	Air Cleaning Device	Date of Completion	Operational Commencement Date
C204B		LP Multipoint Ground Flare (MPGF)	March 21, 2022. Lit pilots for testing	March 21, 2022
205	High Pressure (HP) Header System		May 12, 2022	May 12, 2022
C205		HP System	May 12, 2022	May 12, 2022
C205A		HP Ground Flare	March 16, 2022. Lit pilots for testing	March 16, 2022
C205B		HP Ground Flare	March 16, 2022. Lit pilots for testing	March 16, 2022
C205C		HP Elevated Flare	March 16, 2022. Lit pilots for testing	March 16, 2022
206	Spent Caustic Vent Header System		Construction completed, refractory dry out started May 18, 2022, re lit June 7, 2022 for operation	June 7, 2022
C206		Spent Caustic Vent Incinerator	Construction completed, refractory dry out started May 18, 2022, re lit June 7, 2022 for operation	June 7, 2022
301	Polyethylene Pellet Material Storage/ Handling/Loadout		First pellet test run in PE3 March 19, 2022	March 19, 2022
C301		Fabric Filters (Pellet Storage/Handling/Loadout)	First pellet test run in PE3 March 19, 2022	March 19, 2022
302	Liquid Loadout (Recovered Oil)		July 6, 2022	May 24, 2023
303	Liquid Loadout (Pyrolysis Fuel Oil, Light Gasoline)		July 6, 2022	December 16, 2022 (PFO) March 21, 2023 (Light Gasoline)
304	Liquid Loadout (C3+)		July 6, 2022	September 9, 2022

Attachment B

List of Source(s) and/or Air Cleaning Devices Specified in Plan Approval No. 04-00740 A, B and C

Source ID	Source Name	Air Cleaning Device	Date of Completion	Operational Commencement Date
305	Liquid Loadout (Coke Residue/Tar)		July 6, 2022	March 14, 2023 1 st load out of blended pitch from ECU
401	Storage Tanks (Recovered Oil, Equalizations Wastewater)		April 30, 2021	April 30, 2021
402	Storage Tank (Spent Caustic)		July 6, 2022	August 18, 2022
403	Storage Tanks (Light Gasoline)		July 6, 2022	February 3, 2022
404	Storage Tanks (Hexene)		May 31, 2022	May 31, 2022 (Tank B) and June 26, 2022 (Tank A)
405	Storage Tanks (Misc Pressurized/Refrigerated)		May 12, 2022	5/12/2022
406	Storage Tanks (Diesel Fuel > 150 gallons)		December 4, 2020	December 4, 2020
C406 ^c		Carbon Canisters (Diesel Storage Tanks)	Construction has not commenced	See Note c
407	Storage Tanks (Pyrolysis Fuel Oil)		July 6, 2022	November 8, 2022
408	Storage Tanks (Diesel Fuel < 150 gallons)		March 2, 2020	March 2, 2020
409	Methanol Storage Vessels and Components		May 12, 2022	May 12, 2022
501 ^b	Equipment Components		July 6, 2022	First pellets made at PE3 November 21, 2022, last PE unit to start. All areas have LDAR
502	Wastewater Treatment Plant		April 30, 2021	April 30, 2021
N/A	Induced Nitrogen Floatation Units covered under RfDs <ul style="list-style-type: none"> RfD 10119 Approval Date 4/10/2023 RfD 10277 Approval Date 8/9/2023 	Spent Caustic Vent Incinerator	Wemco INF: May 1, 2023 EC15 INF: November 19, 2023	Wemco INF: May 1, 2023 EC15 INF: November 19, 2023

Attachment B

List of Source(s) and/or Air Cleaning Devices Specified in Plan Approval No. 04-00740 A, B and C

Source ID	Source Name	Air Cleaning Device	Date of Completion	Operational Commencement Date
503	Plant Roadways		Started paving in October 2020	Completed site paving June 5, 2023
504	SF6 High Voltage Switchgear		November 12, 2019	November 12, 2019

^a Source 105, 107 engines covered by RfD 8259

^b PE1 Unit commissioned on October 1, 2022. PE2 Unit commissioned on November 1, 2022. PE3 Unit initially attempted commissioning November 21, 2022, but has experienced equipment design deficiencies and has been shut down since March 25, 2023, following limited commissioning attempts. PE3 Unit was re-commissioned and produced polyethylene on February 23, 2024.

^c No applicable storage tank installed for requirement to apply

Shell Chemical Appalachia LLC
PO Box 4913
Houston, TX 77210

0108044 01 RE 0.571 **AUTO T8 0 6015 17101-183200 -P08052 C07



COMMONWEALTH OF PENNSYLVANIA
DEP ENVIRONMENTAL PROTECTION
400 MARKET ST
HARRISBURG PA 17101-1832

CHECK NO.: 0005060472
COMPANY CODE: UST8
CHECK DATE: 01/23/2024
CLIENT NO.: 0007023588

PAGE 1 OF 1

INVOICE NO.	INV. DATE	REFERENCE	DESCRIPTION	DISC. AMOUNT	NET AMOUNT
0400740BEXTB2024	01/16/2024	1900003627		\$0.00	\$750.00
				TOTAL:	\$750.00



Direct all inquiries to:

APVENDORHELPDESK@SHELL.COM

We invite you to convert to electronic payments in the form of ACH.

Please contact us at the above address/phone number for further details.

DETACH AND RETAIN THIS STUB FOR YOUR RECORDS

Shell Chemical Appalachia LLC
PO Box 4913
Houston, TX 77210

Check No.: 0005060472

62-20
311

01/23/2024

PAY TO THE
ORDER OF:

COMMONWEALTH OF PENNSYLVANIA
DEP ENVIRONMENTAL PROTECTION
400 MARKET ST
HARRISBURG PA 17101-2301

*****\$750.00

NOT VALID AFTER 180 DAYS

Bernardo Franco
AUTHORIZED SIGNATURE

Seven Hundred Fifty and 00/100 Dollars

Jennifer Bellowski
AUTHORIZED SIGNATURE

CITIBANK, N.A.
ONE PENN'S WAY, NEW CASTLE, DE 19720

0005060472 031100209

38872154

RE0108044-0001_of_0001 6015-0008044 (F23S)