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June 21, 2023

Ashton Inabinett  
Office Manager  
Chem-Nuclear Systems, LLC  
740 Osborn Road  
Barnwell, SC 29812

Re: Rate Schedules and Annual Adjustments – FY 2023-2024

Dear Ashton:

Attached are the approved Maximum Uniform Rate Schedule (“MURS”) and Alternative Rate Schedule (“ARS”) for FY 2023-2024. Pursuant to Section 48-46-40(A)(4), South Carolina Code of Laws, the South Carolina Office of Regulatory Staff (“ORS”) must adjust the MURS for Atlantic Compact waste generators each year in accordance with the most recently published Producer Price Index (“PPI”) available in March. The ARS represents the results of negotiations between Chem-Nuclear and the Atlantic Compact utilities.

Pursuant to the Memorandum of Understanding, signed June 30, 2009, and approved by the South Carolina Budget and Control Board, regarding pricing and operational costs, the maximum amount of yearly disbursements from the Barnwell Decommissioning Trust Fund and/or the Barnwell Extended Care Maintenance Fund shall be adjusted each year in accordance with the most recently published PPI to cover “Institutional Costs” of the disposal facility and its surroundings. Under the North American Industry Classification System (NAICS), Industry Code 325 (Chemical Manufacturing, or Chemical mfg) is used as the basis for the annual adjustment of the MURS. ORS calculated the annual adjustments to the MURS, which will be applicable for Fiscal Year 2023 through 2024. The most recent data from the U.S. Bureau of Labor Statistics (“BLS”) is the February 2023 PPI Detailed Report. Table 12 of the PPI shows an **increase of 4.1 percent** from February 2022 to February 2023 per the “Chemical mfg” code, which has been applied to MURS rates for FY 2023 through 2024.

The maximum amount of yearly disbursements from the Barnwell Decommissioning Trust Fund and/or Barnwell Extended Care Maintenance Fund shall be **increased from \$2,663,619 to \$2,828,763** based on the February 2023 PPI **increase of 6.2 percent** for “Other selected services less trade, transportation, and warehousing industries” found in Table 10 of the PPI. Copies of the MURS and relevant portions of the PPI Detailed Report are also attached for reference.

Sincerely,

Nanette Edwards  
Executive Director  
South Carolina Office of Regulatory Staff

Enclosures



Pursuant to 48-46-40(A)(2), S.C.C

## Uniform Schedule of Maximum Disposal Rates for Atlantic Compact Regional Waste

EFFECTIVE JULY 1, 2023

The Uniform Schedule of Maximum Disposal Rates for Atlantic Compact Regional Waste is a permanent ceiling on disposal rates applicable to Atlantic Compact waste that is adjusted each year in accordance with the Producer Price Index. South Carolina may charge Atlantic Compact generators less than the Uniform Maximum schedule but cannot charge regional generators more than this rate.

THE MINIMUM CHARGE PER SHIPMENT, EXCLUDING SURCHARGES AND SPECIFIC OTHER CHARGES, IS \$1,000.00

### 1. WEIGHT CHARGES (not including surcharges)

#### A. Base weight charge

Density Range	Weight Rate
i.) Equal to or greater than 120 lbs./ft <sup>3</sup>	\$ 10.203 per pound
ii.) Equal to or greater than 75 lbs./ft <sup>3</sup> and less than 120 lbs./ft <sup>3</sup>	\$ 11.224 per pound
iii.) Equal to or greater than 60 lbs./ft <sup>3</sup> and less than 75 lbs./ft <sup>3</sup>	\$ 13.773 per pound
iv.) Equal to or greater than 45 lbs./ft <sup>3</sup> and less than 60 lbs./ft <sup>3</sup>	\$ 17.856 per pound
v.) Less than 45 lbs./ft <sup>3</sup>	\$ 17.856 per pound multiplied by: (45 + pounds per cubic foot of the package)

#### B. Dose multiplier on base weight charge

Container Dose Level			Multiplier on Weight Rate, above
0 mR/hr	-	200 mR/hr	1.00
>200 mR/hr	-	1 R/hr	1.08
>1R/hr	-	2R/hr	1.12
>2R/hr	-	3R/hr	1.17
>3R/hr	-	4R/hr	1.22
>4R/hr	-	5R/hr	1.27
>5R/hr	-	10R/hr	1.32
>10R/hr	-	25R/hr	1.37
>25R/hr	-	50R/hr	1.42
>50R/hr			1.48



Pursuant to 48-46-40(A)(2), S.C.C

C. **Biological Waste:** Add \$2.217 per pound to rate calculated above

## 2. SURCHARGES

A. Millicurie surcharge \$0.764 per millicurie\*

\*In lieu of above, generator may opt for an alternative millicurie charge of \$1.527 per millicurie applicable only to millicuries with greater than 5-year half-life. Such election must be provided in writing to the disposal site operator prior to July 1, 2023.

MAXIMUM MILLICURIE CHARGE IS \$305,600, PER SHIPMENT (400,000 MCI).

B. Irradiated Hardware Charges (See Note B under Miscellaneous) \$115,961 per shipment

C. Special Nuclear Material Surcharge \$23.186 per gram

D. Atlantic Compact Commission administrative surcharge \$6.00 per cubic foot  
(Subject to change during year)

## NOTES

A. Surcharges for the Barnwell Extended Care Fund and the Decommissioning Trust Fund are included in the rates.

B. Irradiated hardware: As a general rule, billing as irradiated hardware pertains to shipments of exceptionally high activity that require clearing of the site and special off-loading into a slit trench. These generally include TN-RAM and other horizontally offloaded cask shipments. In addition to items of irradiated hardware, shipments considered irradiated hardware, for purposes of disposal, have included certain sealed sources and materials with exceptionally high levels of radioactivity.

C. Large components (e.g., steam generators, reactor pressure vessels, coolant pumps)

Disposal fees for large components (e.g., steam generators, reactor pressure vessels, reactor coolant pumps, or items that will not fit into standard sized disposal vaults) are based on the generally applicable rates, in their entirety, except that the weight and volume used to determine density and weight related charges is calculated as follows:

1. For packages where the large component shell qualifies as the disposal vault per DHEC regulations, weight and volume calculations are based on all sub-components and material contained within the inside surface of the large component shell, including all internals and any stabilization media injected by the shipper, but excluding the shell itself and all incidental external attachments required for shipping and handling; and

2. For packages with a separate shipping container that qualifies as the disposal vault per DHEC regulations, weight and volume calculations are based on the large component, all sub-components and material contained within the inside surface of the shipping container, including any stabilization media injected by the shipper (including that between the large component and the shipping



*Pursuant to 48-46-40(A)(2), S.C.C.*

container), but excluding the shipping container itself and all incidental external attachments required for shipping and handling.

- D. Co-mingled shipments from brokers and processors: For containers that include waste from different generators (DHEC permittees), the weight and density of the waste from each generator will be assessed separately for purposes of the weight charge in I.A. The dose of the container as a whole will be used to assess the dose multiplier in I.B. The millicurie charge 2.A. above, applies individually to each portion of waste in the shipment from each generator. The disposal site operator will provide guidelines for application of this method.
  - E. Transport vehicles with additional shielding features may be subject to an additional handling fee which will be provided upon request.
  - F. In certain circumstances, the disposal site operator may assess additional charges for necessary services that are not part of and are additional to disposal rates established by the State of South Carolina. These include decontamination services and special services as described in the Barnwell Site Disposal Criteria.
  - G. The disposal site operator has established the following policies and procedures which are provided herein for informational purposes:
    - i. Terms of payment are net 30 days upon presentation of invoices. A per-month service charge of one and one-half percent (1½%) shall be levied on accounts not paid within thirty (30) days.
    - ii. Company purchase orders or a written letter of authorization and substance acceptable to CNS shall be received before receipt of radioactive waste material at the Barnwell Site and shall refer to CNS Radioactive Material License, the Barnwell Site Disposal Criteria and subsequent changes thereto.
    - iii. All shipments shall receive a CNS shipment identification number and conform to the Prior Notification Plan.
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**Atlantic Compact Regional Waste  
Alternative Rate Schedule  
Effective July 1, 2023**

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**Option A Pricing** (applicable to Generators who do not elect Option B Access Fee Pricing)

Use Maximum Uniform Rate Schedule

**Option B Access Fee** (at Generator's election)

An individual nuclear power reactor, or any non-reactor waste generator with a South Carolina permit to ship waste to the Barnwell site is eligible to be an Option B Participant.

Option B Participants may elect Option B Access Fee pricing by committing to an annual access fee to be paid in quarterly installments. The first quarter's access fee will be assessed on July 15, 2023. All Option B participants will provide the disposal site operator a volume projection and shipping schedule for Fiscal Year ("FY") 2024 and update the projection and shipping schedule throughout the year, as necessary.

***QUARTERLY ACCESS FEE***

Option B Participants shall pay a quarterly access fee and an annual true-up payment, if required, in lieu of disposal charges for individual shipments.

The access fee for all four quarters must be paid, even if the Option B Participant does not plan to ship waste during any specific quarter. Quarterly access fee payments are due no later than:

- July 15, 2023
- October 1, 2023
- January 1, 2024
- April 1, 2024

An interim revenue requirement shall be used as the basis for determining an annual access fee for each Option B Participant. The annual access fee may be determined by dividing the interim revenue requirement for operating costs (less the amount of payments projected to be received from Option A disposal rate customers), evenly among all Option B Participants or an additional allocation method agreed upon between Energy Solutions/Chem-Nuclear and each Option B Participant.

The annual access fees for each Option B Participant shall be split into quarterly payments. In recognition of the request by Option B Participants for billing to reflect a calendar year budgeting cycle, the quarterly access fee payments shall be calculated using the interim revenue requirement for both the current fiscal year and the prior fiscal year as follows:

The interim revenue requirement for the current fiscal year, FY 2024, is \$6,000,000.  
The interim revenue requirement for the prior fiscal year, FY 2023, was \$6,000,000.<sup>1</sup>

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<sup>1</sup> In general these numbers may vary. In years where the interim revenue requirement for the current fiscal year differs from the interim revenue requirement for the prior fiscal year, a final annual true-up payment may be billed as modified by any amounts payable to the Option B Participants as outlined in the Rate Reconciliation section.

The quarterly access fee for payments due July 15, 2023 and October 1, 2023 shall be calculated based on the interim revenue requirement for the current fiscal year, FY 2024. The interim revenue requirement for FY 2024 (less the amount of payments projected to be received from Option A disposal rate customers), shall be divided in half, and that amount shall be divided into two quarterly payments and shall be divided evenly among all Option B Participants.

The quarterly access fee for payments due January 1, 2024 and April 1, 2024 shall be based on the interim revenue requirement for the current fiscal year, FY 2024. The interim revenue requirement for FY 2024 (less the amount of payments projected to be received from Option A disposal rate customers) shall be divided in half, and that amount shall be divided into two quarterly payments and shall be divided evenly among all Option B Participants.

Chem-Nuclear shall monitor costs and cash receipts from July 2023 through February 2024 and, if a significant over collection is anticipated, may reduce a future access fee payment to reduce the anticipated over collection.

### ***VOLUME ALLOCATIONS***

Volume Allocations. Each Option B Participant shall be allocated an equal share of up to 7,000 cubic feet of disposal capacity (volume allocation), which may be disposed at no further charge. Volume allocations for Option B Participants may be pooled within a company upon written notification to Chem-Nuclear from the applicable Participants prior to August 1, 2023. An Option B Participant may transfer unused allocation to another Option B Participant by providing Chem-Nuclear a signed statement executing the transfer.

### ***VARIABLE COST SURCHARGE***

For each cubic foot of waste received that is in excess of an Option B Participant's volume allocation (or pooled allocation), the Participant shall be assessed an additional \$110 per cubic foot to cover variable costs and margin related to acceptance of the waste. (The variable cost surcharge does not apply to any waste volume resulting from the transfer of excess volume allocation from one Option B Participant to another.)

### ***RATE RECONCILIATION***

Final approval by the PSC of allowable operating costs for FY 2023 is expected no later than June 30, 2024. In the event that the total of operating costs approved by the PSC, plus margin, for FY 2023 is less than the amounts paid through Option B fees and variable cost surcharges, plus payments received for Any Option A disposal charges, Irradiated Hardware, Steam Generators or other Large Components, each Option B Participant will be due an equal share of the over-payment. The over-payment will be processed by the method agreed upon by the Option B Participants. If an Option B Participant from FY 22/23 is no longer a participant, that participant's over-payment will be refunded no later than June 30, 2024.

If the total of operating costs approved by the PSC, plus margin, for FY 2023 exceeds the amounts paid through Option B fees and variable cost surcharges, plus payments received for any Option A disposal charges, Irradiated Hardware, Steam Generators, or other Large Components, each Option B Participant will be invoiced no later than June 30, 2024 on a proportionate per reactor basis share of the difference, unless EnergySolutions/Chem-Nuclear voluntarily waives its rights under South Carolina law to seek or accept such revenues.

### ***VOLUME PROJECTIONS***

Each Option B Participant shall provide the disposal site operator a projection of its expected waste volumes for the fiscal year not later than July 1, 2023, and will update the projection on a quarterly basis, or as conditions warrant. Option B Participants recognize that shipment of waste to the disposal site at a relatively even pace throughout the fiscal year helps minimize operating costs.

### ***IRRADIATED HARDWARE (See Note D)***

**Irradiated Hardware is not included in Volume Allocations and is not considered as waste in excess of volume allocations. Pricing will be calculated on a case-by-case basis in an amount sufficient to cover all allowable operating costs incurred by the site operator to dispose of the waste.**

### ***STEAM GENERATORS AND OTHER LARGE COMPONENTS (See Note E)***

**Large Components are not included in Volume Allocations and are not considered as waste in excess of volume allocations. Pricing will be calculated on a case-by-case basis in an amount sufficient to cover all allowable operating costs incurred by the site operator to dispose of the waste.**

#### **NOTES:**

- A. Due to staffing limitations, Chem-Nuclear is authorized to limit total waste volumes received during the fiscal year to 12,433 cubic feet (excluding large components and irradiated hardware).
- B. Surcharges for the extended care fund and decommissioning trust fund are included in the disposal rates.
- C. Sealed sources: Requests for disposal are reviewed by South Carolina Department of Health and Environmental Control to ensure that the waste was generated within the Atlantic Compact region.
- D. Irradiated hardware and high dose shipments: As a general rule, case-by-case billing as irradiated hardware pertains to shipments of exceptionally high activity that require clearing of the site and special off-loading into a slit trench. These generally include TN-RAM and other horizontally offloaded cask shipments. In addition to items of irradiated hardware, if a shipment requires substantial special handling, due to exceptionally high package surface doses, additional surcharges may be authorized by Board staff in an amount that will reimburse the site operator for costs that have not been budgeted.
- E. Large components: Pricing will be calculated on a case-by-case basis in an amount sufficient to cover all allowable operating costs incurred by the site operator, and associated margin, as a result of the request for disposal and disposal of the waste. Large components include steam generators, reactor pressure vessels, reactor coolant pumps, or items that require construction of special-sized disposal vaults. Large components also include items that may fit into the standard sized vault but fit so inefficiently due to their shape and geometry that it is less costly to build a specially sized vault.
- F. Because the disposal of large components is rare and is not considered as a factor in planning and budgeting for site operations, a supplemental service fee sufficient to cover all additional costs and margin may be authorized by Board staff to cover the disposal site operator's costs for planning, consultation, feasibility studies, cost estimating, regulatory consultation, and other necessary costs that have not been budgeted and accounted for as operating costs for the fiscal year. This supplemental service fee is applicable whether or not the generator ultimately commits to disposal of the large component(s), and whether or not the waste is eventually disposed at the Barnwell site.
- G. Because the operating costs for disposal of large components may be significantly affected by the number of such components and the schedule for delivery, generators are strongly encouraged to coordinate their plans for shipment of large components to Barnwell in order to reduce unit costs through better economies of scale. Early in project planning, shippers are encouraged to consult with the disposal site operator on designs and configurations that may reduce handling and offloading costs at the disposal site.
- H. Transport vehicles with additional shielding features may be subject to an additional handling fee which will be provided upon request.
- I. In certain circumstances, the disposal site operator may assess additional charges for necessary services that are not part of and are additional to disposal rates established by the State of South Carolina. These include decontamination services and special services as described in the Barnwell Site Disposal Criteria.
- J. The disposal site operator has established the following policies and procedures which are provided herein for informational purposes:
  - i. Terms of payment are net 30 days upon presentation of invoices. A per-month service charge of one and one-half percent (1½%) shall be levied on accounts not paid within thirty (30) days.

ii. Company purchase orders or a written letter of authorization and substance acceptable to CNS shall be received before receipt of radioactive waste material at the Barnwell Site and shall refer to CNS Radioactive Material License, the Barnwell Site Disposal Criteria and subsequent changes thereto.

iii. All shipments shall receive a CNS shipment identification number and conform to the Prior Notification Plan.



**Table 10. Producer price indexes and percentage changes for net output of selected industries and industry groups, not seasonally adjusted — Continued**  
 [February 2023]

Title <sup>1</sup>	Index base	Industry code	Unadjusted index <sup>2</sup>					Unadjusted 1-month percent change <sup>2</sup>	Unadjusted 12-month percent change <sup>2</sup>
			Oct. 2022	Nov. 2022 <sup>p</sup>	Dec. 2022 <sup>p</sup>	Jan. 2023 <sup>p</sup>	Feb. 2023 <sup>p</sup>		
<b>Information - Continued</b>									
Telecommunications.....	12/03	517--	106.061	105.950	106.146	107.517	107.796	0.3	4.8
Data processing and related services.....	12/03	5182--	113.034	113.040	113.067	113.087	113.206	0.1	1.5
<b>Selected health care industries.....</b>									
Offices of physicians.....	12/06	ASHC--	137.826	137.720	137.993	138.584	139.056	0.3	2.4
Offices of dentists.....	12/96	6211--	143.527	143.702	143.923	143.448	144.153	0.5	0.7
Medical and diagnostic laboratories.....	06/10	6212--	127.830	127.830	127.830	128.879	132.780	3.0	4.9
Home health care services.....	12/03	6215--	103.298	103.130	103.142	103.722	103.722	0.0	0.0
Blood and organ banks.....	12/96	6216--	156.607	156.848	157.033	157.201	157.207	0.0	1.9
Hospitals.....	06/06	621991	126.195	127.090	127.965	128.230	128.000	-0.2	3.7
Nursing care facilities.....	12/92	622--	224.882	224.349	224.960	226.447	226.524	0.0	2.4
Residential developmental disability homes.....	12/03	6231--	171.062	171.536	171.705	172.850	172.970	0.1	5.6
Residential developmental disability homes.....	12/03	62321-	209.483	209.381	209.187	213.807	213.807	0.0	6.3
<b>Other selected services less trade, transportation, and warehousing industries.....</b>									
Depository credit intermediation.....	12/06	ASTDSV	140.115	141.833	142.115	144.129	144.939	0.6	6.2
Security, commodity contracts and like activity.....	12/03	5221-	117.530	124.446	126.106	132.804	136.619	2.9	35.1
Insurance carriers and related activities.....	12/03	523--	226.237	238.819	237.307	244.462	249.396	2.0	7.4
Lessors of nonres bldg (exc miniwarehouse).....	12/03	524--	147.032	146.956	147.526	148.364	148.417	0.0	1.9
Lessors of miniwarehouse and self storage units.....	12/03	53112-	137.642	136.793	138.537	141.483	135.307	-4.4	2.0
Offices of real estate agents and brokers.....	12/03	53113-	194.053	194.552	194.370	195.031	194.414	-0.3	13.2
Real estate property managers.....	12/03	5312-	185.980	185.388	185.147	184.046	182.143	-1.0	1.4
Offices of real estate appraisers.....	12/03	53131-	127.029	127.562	126.450	127.333	126.997	-0.3	1.4
Automotive equipment rental and leasing.....	12/03	531320	117.875	116.692	116.765	117.921	115.796	-1.8	1.2
Other heavy machinery rental and leasing.....	06/01	5321-	162.585	154.713	151.848	147.978	149.384	1.0	2.1
Legal services.....	12/03	532412	134.993	135.451	135.558	135.684	135.702	0.0	8.4
Offices of certified public accountants.....	12/96	5411-	257.752	257.630	257.309	265.519	270.585	1.9	6.6
Other accounting services.....	12/03	541211	133.834	134.164	134.553	138.289	138.107	-0.1	7.4
Architectural, engineering and related services.....	12/03	541219	146.938	142.058	141.228	141.228	141.228	0.0	-6.4
Management and technical consulting services.....	12/96	5413-	184.275	184.876	184.748	186.999	187.831	0.4	3.8
Advertising agencies.....	06/06	5416--	126.497	126.443	127.977	128.461	127.573	-0.7	-0.1
Employment services.....	12/03	54181-	123.031	123.114	123.140	123.282	123.527	0.2	1.2
Travel agencies.....	12/96	5613--	159.051	159.175	159.259	159.241	160.189	0.6	2.3
Security guards and patrol services.....	12/03	56151-	104.105	104.391	105.106	105.123	104.473	-0.6	6.0
Janitorial services.....	12/04	561612	151.639	151.584	151.554	153.260	153.425	0.1	7.9
Waste collection.....	12/03	56172-	134.607	134.939	135.234	136.316	136.388	0.1	2.9
Amusement and theme parks.....	12/03	5621--	171.255	171.487	171.639	173.951	177.509	2.0	11.4
Golf courses and country clubs.....	06/06	71311-	205.521	208.396	210.729	211.038	213.687	1.3	7.4
Fitness and recreational sports centers.....	12/05	71391-	148.357	150.184	151.565	159.363	159.722	0.2	9.2
Accommodation.....	12/04	71394-	113.384	113.384	113.625	115.976	116.549	0.5	6.1
Commercial machinery repair and maintenance.....	12/96	721--	193.019	189.629	189.907	188.030	191.060	1.6	7.8
Commercial machinery repair and maintenance.....	06/06	8113--	179.239	179.394	179.406	179.416	179.418	0.0	9.9

<sup>1</sup> Indexes in this table are derived from the net-output-weighted industry price indexes. Because of differences in coverage and aggregation methodology, they will generally not match the movements of similarly titled indexes which are derived from traditional commodity groupings.

<sup>2</sup> All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents.

<sup>3</sup> Formerly titled "Total traditional service industries."

<sup>p</sup> Preliminary

"-" Data not available.

**Table 11. Producer price indexes for net output of selected industries and their products, not seasonally adjusted — Continued**  
 [February 2023]

Title <sup>1</sup>	Industry code	Product code	Index base	Unadjusted index <sup>2</sup>				
				Oct. 2022	Nov. 2022 <sup>P</sup>	Dec. 2022 <sup>P</sup>	Jan. 2023 <sup>P</sup>	Feb. 2023 <sup>P</sup>
All other petroleum and coal products mfg. - Continued								
All other petroleum and coal products (excl. coke oven products), made in coke oven estab.....		324199-9	12/02	444.968	446.014	441.241	441.540	434.782
Secondary products and miscellaneous receipts.....		324199-SM						
Secondary products.....		324199-S	12/09	-	-	-	-	179.387
Chemical mfg.....	325		12/84	383.123	360.100	358.305	359.709	381.486
Basic chemical mfg.....	3251		12/84	461.754	455.368	451.769	449.670	450.469
Petrochemical mfg.....	32511		12/03	173.692	160.918	153.261	148.447	149.456
Petrochemical manufacturing.....	325110		12/03	174.233	161.828	153.799	148.937	149.915
Primary products.....		325110-P	12/03	183.299	174.022	162.349	155.770	155.181
Secondary products and miscellaneous receipts.....		325110-SM						
Industrial gas mfg.....	32512		12/03	240.109	228.223	225.687	234.653	235.631
Industrial gas manufacturing.....	325120		12/03	240.856	228.913	226.365	235.359	236.340
Primary products.....		325120-P	06/81	401.178	380.840	378.505	391.505	393.142
Oxygen.....		325120-A	06/81	542.627	542.763	543.159	548.071	541.568
Argon and hydrogen.....		325120-C	06/09	86.687	87.429	90.713	89.085	89.793
Other industrial gases (including fluorocarbon and acetylene).....		325120-T	06/09	282.403	262.187	255.901	273.301	273.301
Carbon dioxide.....		325120-4	06/81	656.691	640.094	652.144	666.214	667.941
Nitrogen.....		325120-7	06/81	288.893	284.645	284.696	289.315	300.244
Secondary products and miscellaneous receipts.....		325120-SM						
Synthetic dye and pigment mfg.....	32513		12/03	183.608	188.520	189.307	188.397	189.189
Synthetic dye and pigment manufacturing.....	325130		12/11	121.312	124.555	125.075	124.474	124.997
Primary products.....		325130-P	12/11	119.473	122.832	123.431	122.830	123.344
All other inorganic pigments, including TiO2, chrome colors, and other white opaque pigments.....		325130-N	09/21	126.410	129.945	129.945	129.945	130.488
Synthetic organic dyes, pigments, lakes, and toners.....		325130-R	09/21	114.768	118.039	120.181	117.514	118.011
Synthetic organic dyes.....		325130-R8	12/82	137.811	137.852	138.455	132.114	133.296
Synthetic organic pigments, lakes, and toners.....		325130-R9	12/82	203.798	212.247	217.385	217.385	217.385
Secondary products and miscellaneous receipts.....		325130-SM						
Secondary products.....		325130-S	12/11	139.829	140.341	140.341	139.592	142.566
Other basic inorganic chemical manufacturing.....	32518		12/03	404.469	397.183	405.874	408.631	412.725
Other basic inorganic chemical manufacturing.....	325180		12/10	176.301	173.130	176.857	178.141	179.835
Primary products.....		325180-P	12/10	150.282	147.804	147.924	149.296	150.975
Potassium and sodium compounds, excluding bleaches, alkalis, and alum.....		325180-A	12/82	604.871	621.357	641.447	646.476	660.649
All other inorganic chemicals.....		325180-H	12/03	370.466	373.089	375.352	383.616	393.030
Inorganic acids, excluding nitric, sulfuric and phosphoric.....		325180-3	12/82	171.465	175.510	170.879	172.029	169.590
Sodium hydroxide (caustic soda).....		325180-4	12/80	751.632	752.566	747.900	763.007	758.578
Carbon black, all processes.....		325180-6	12/83	647.911	633.839	624.283	602.029	627.536
Other alkalis.....		325180-7	12/11	181.909	182.351	181.944	182.185	181.998
Sulfuric acid.....		325180-9	12/82	254.436	172.046	-	-	-
Secondary products and miscellaneous receipts.....		325180-SM						
Miscellaneous receipts.....		325180-M	12/10	271.521	264.573	295.612	295.612	298.088
Secondary products.....		325180-S	12/10	273.611	269.419	270.229	263.533	257.506
Other basic organic chemical mfg.....	32519		12/03	242.777	243.796	241.096	239.493	238.650
Ethyl alcohol manufacturing.....	325193		12/03	260.227	267.444	257.530	253.235	250.729
Primary products.....		325193-P	12/82	280.822	293.942	273.755	266.254	263.277
Ethyl alcohol.....		325193-0	12/82	280.822	293.942	273.755	264.646	261.283
Distillers' dried grains (dark and light) and dried solubles.....		325193-2	12/22	-	-	100.000	101.786	-
Secondary products and miscellaneous receipts.....		325193-SM						
Secondary products.....		325193-S	12/03	239.668	236.573	245.883	254.324	253.275
Cyclic crude, intermediate, and gum and wood chemical mfg.....	325194		06/11	129.121	128.803	128.685	128.721	130.081
Primary products.....		325194-P	06/11	147.023	147.354	147.189	147.203	148.229
Gum and wood chemicals, including wood distillation products.....		325194-1	06/84	543.187	548.838	548.447	548.717	547.842
Cyclic crude and intermediate chemicals.....		325194-2	12/03	254.974	254.891	254.572	254.563	257.029
Secondary products and miscellaneous receipts.....		325194-SM						
All other basic organic chemical manufacturing.....	325199		12/03	246.099	244.854	244.637	243.974	243.444
Primary products.....		325199-P	12/82	423.567	420.567	418.876	417.045	411.730
Natural organic chemicals.....		325199-E	12/08	153.649	154.686	152.049	151.128	157.607
Synthetic organic chemicals for use as flavor and perfume materials.....		325199-H	12/03	132.360	132.360	132.360	131.351	131.351
Synthetic organic plasticizers.....		325199-N	12/03	243.418	240.962	218.103	226.761	232.640
Other synthetic organic chemicals.....		325199-R	12/03	200.245	195.357	196.790	193.971	194.309
Miscellaneous end use chemicals and chemical products, excluding urea.....		325199-T	12/82	428.478	430.433	435.128	429.074	409.818
Miscellaneous cyclic and acyclic chemicals and chemical products, excluding fatty acid esters.....		325199-V	12/82	415.340	406.122	401.275	405.398	405.398
Fatty acids.....		325199-1	06/85	372.231	378.367	357.826	359.097	342.530

See footnotes at end of table.

**Table 12. Producer price index percentage changes for the net output of selected industries and their products, not seasonally adjusted — Continued**  
[February 2023]

Title <sup>1</sup>	Industry code	Product code	Unadjusted 12-month percent change <sup>2</sup>	Unadjusted 1-month percent change <sup>2</sup>				
				Feb. 2022 to Feb. 2023 <sup>P</sup>	Sept. to Oct.	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>
Petroleum lubricating oil and grease mfg. - Continued								
Miscellaneous receipts.....		324191-M	-	-3.9	2.1	-6.8	8.6	-0.2
All other petroleum and coal products mfg.....	324199		20.6	-0.6	-0.8	-0.3	0.2	-1.5
Primary products.....		324199-P	21.3	-0.6	-0.9	-0.3	0.2	-1.4
Coke oven and blast furnace products, made in coke oven establishments.....		324199-3	19.2	0.9	-2.1	0.5	3.2	0.7
All other petroleum and coal products (excl. coke oven products), made in coke oven estab.....		324199-9	29.1	-2.0	0.2	-1.1	0.1	-1.5
Secondary products and miscellaneous receipts.....		324199-SM						
Secondary products.....		324199-S	-	-	-	-	-	-
Chemical mfg.....	325		4.1	-0.5	-0.8	-0.5	0.4	0.5
Basic chemical mfg.....	3251		3.4	-1.1	-1.4	-0.8	-0.5	0.2
Petrochemical mfg.....	32511		-23.9	-5.0	-7.4	-4.8	-3.1	0.7
Petrochemical manufacturing.....	325110		-24.2	-5.2	-7.1	-5.0	-3.2	0.7
Primary products.....		325110-P	-27.9	-7.1	-5.1	-6.7	-4.1	-0.4
Secondary products and miscellaneous receipts.....		325110-SM						
Industrial gas mfg.....	32512		5.0	0.5	-5.0	-1.1	4.0	0.4
Industrial gas manufacturing.....	325120		5.0	0.5	-5.0	-1.1	4.0	0.4
Primary products.....		325120-P	5.0	0.5	-5.1	-1.1	4.0	0.4
Oxygen.....		325120-A	37.9	-0.1	0.0	0.1	0.9	-1.2
Argon and hydrogen.....		325120-C	3.4	-0.1	0.9	3.8	-1.8	0.8
Other industrial gases (including fluorocarbon and acetylene).....		325120-T	-0.5	0.4	-7.2	-2.4	6.8	0.0
Carbon dioxide.....		325120-4	30.2	-0.1	-2.5	1.9	2.2	0.3
Nitrogen.....		325120-7	20.5	2.3	-1.5	0.0	1.6	3.8
Secondary products and miscellaneous receipts.....		325120-SM						
Synthetic dye and pigment mfg.....	32513		15.1	-1.7	2.7	0.4	-0.5	0.4
Synthetic dye and pigment manufacturing.....	325130		15.1	-1.7	2.7	0.4	-0.5	0.4
Primary products.....		325130-P	15.5	-1.8	2.8	0.5	-0.5	0.4
All other inorganic pigments, including TiO2, chrome colors, and other white opaque pigments.....		325130-N	18.9	-1.6	2.8	0.0	0.0	0.4
Synthetic organic dyes, pigments, lakes, and toners.....		325130-R	6.7	-2.5	2.9	1.8	-2.2	0.4
Synthetic organic dyes.....		325130-R8	-6.6	0.0	0.0	0.4	-4.6	0.9
Synthetic organic pigments, lakes, and toners.....		325130-R9	14.6	-3.6	4.1	2.4	0.0	0.0
Secondary products and miscellaneous receipts.....		325130-SM						
Secondary products.....		325130-S	11.6	0.0	0.4	0.0	-0.5	2.1
Other basic inorganic chemical manufacturing.....	32518		13.5	-2.3	-1.8	2.2	0.7	1.0
Other basic inorganic chemical manufacturing.....	325180		13.6	-2.3	-1.8	2.2	0.7	1.0
Primary products.....		325180-P	17.7	0.8	-1.6	0.1	0.9	1.1
Potassium and sodium compounds, excluding bleaches, alkalies, and alum.....		325180-A	29.0	3.6	2.7	3.2	0.8	2.2
All other inorganic chemicals.....		325180-H	9.1	-1.6	0.7	0.6	2.2	2.5
Inorganic acids, excluding nitric, sulfuric and phosphoric.....		325180-3	13.1	3.5	2.4	-2.6	0.7	-1.4
Sodium hydroxide (caustic soda).....		325180-4	30.0	3.4	0.1	-0.6	2.0	-0.8
Carbon black, all processes.....		325180-6	1.3	-6.0	-2.2	-1.5	-3.6	4.2
Other alkalies.....		325180-7	34.8	2.8	0.2	-0.2	0.1	-0.1
Sulfuric acid.....		325180-9	-	-1.9	-32.4	-	-	-
Secondary products and miscellaneous receipts.....		325180-SM						
Miscellaneous receipts.....		325180-M	-7.5	-17.5	-2.6	11.7	0.0	0.8
Secondary products.....		325180-S	33.3	-	-1.5	0.3	-2.5	-2.3
Other basic organic chemical mfg.....	32519		7.1	0.1	0.4	-1.1	-0.7	-0.4
Ethyl alcohol manufacturing.....	325193		10.7	-1.6	2.8	-3.7	-1.7	-1.0
Primary products.....		325193-P	7.4	-2.5	4.7	-6.9	-2.7	-1.1
Ethyl alcohol.....		325193-0	6.6	-2.5	4.7	-6.9	-3.3	-1.3
Distillers' dried grains (dark and light) and dried solubles.....		325193-2	-	-	-	-	1.8	-
Secondary products and miscellaneous receipts.....		325193-SM						
Secondary products.....		325193-S	9.1	0.1	-1.3	3.9	3.4	-0.4
Cyclic crude, intermediate, and gum and wood chemical mfg.....	325194		1.5	-1.4	-0.2	-0.1	0.0	1.1
Primary products.....		325194-P	6.0	0.4	0.2	-0.1	0.0	0.7
Gum and wood chemicals, including wood distillation products.....		325194-1	10.3	1.5	1.0	-0.1	0.0	-0.2
Cyclic crude and intermediate chemicals.....		325194-2	4.7	0.1	0.0	-0.1	0.0	1.0
Secondary products and miscellaneous receipts.....		325194-SM						
All other basic organic chemical manufacturing.....	325199		6.2	1.0	-0.5	-0.1	-0.3	-0.2

See footnotes at end of table.