

## Implementation Summary Table - 2018

This table summarizes the provisions of the PCIS which apply to the Site, the date on which each provision applies to the Site, and if compliance of the provision has been achieved, the date on which it was achieved.

PCIS Part	Applicable Provisions	Date the Provision Applies	Date Compliance was Achieved
<b>Part 1 - General</b>	Definitions (Section 1)	N/A	N/A
	Application (Section 2)	N/A	N/A
<b>Part II - Performance</b>	Leak measurement instrumentation (Section 3)	July 28, 2017 (1)	July 28, 2017
	Closed systems (Section 4)	July 28, 2017	July 28, 2017
	Flare (Section 5)	January 1, 2020	N/A
	Air pollution control devices (Section 6)	July 28, 2017	July 28, 2017
	Requirement to detect leaks (Section 7)	July 28, 2017	July 28, 2017
	Notification-performance requirements (Section 8)	July 28, 2017	N/A in 2018
<b>Part III - Storage Vessels</b>	Storage vessels identification (Section 9)	July 28, 2017	July 28, 2017
	Storage vessels- application (Section 10)	January 1, 2018	January 1, 2018
	Floating roof- requirement to float (Section 11)	January 1, 2018	January 1, 2018
	Internal floating roof -rim seal requirements (Section 12)	N/A in 2018	N/A in 2018
	External floating roof- rim seal requirements (Section 13)	January 1, 2025	N/A in 2018
	Floating roof deck fittings (Section 14)	January 1, 2025	N/A in 2018
	Deck covers-requirement to be closed (Section 15)	January 1, 2025	N/A in 2018
	Floating roof-visual inspection (Section 16)	January 1, 2018	N/A in 2018
	Storage vessels-OGI inspection (Section 17)	January 1, 2018	January 1, 2018
	Floating roof-seal gap inspection (Section 18)	January 1, 2018	Compliance requirements not triggered yet
	Storage vessel repair (Section 19)	January 1, 2018	January 1, 2018 (2)
	Requirement to notify-recurring repair (Section 20)	January 1, 2018	January 1, 2018
	Storage vessels in benzene service-general record (Section 21)	July 28, 2017	July 28, 2017
	Storage vessel inspection record (Section 22)	January 1, 2018	January 1, 2018
	Rim seal gap report-storage vessels (Section 23)	N/A in 2018	N/A in 2018

PCIS Part	Applicable Provisions	Date the Provision Applies	Date Compliance was Achieved
<b>Part IV - Air Emissions from Industrial Sewage</b>	Primary oil-water separators-requirement selection (Section 24)	March 1, 2018	October 26, 2017
	Primary oil-water separators-monitor and control requirements (Section 25)	July 1, 2018	July 1, 2018
	Primary oil-water separators floating roof-requirement to float (Section 26)	N/A in 2018	N/A in 2018
	Primary oil-water separators floating roof-rim seal gap inspection (Section 27)	N/A in 2018	N/A in 2018
	Primary oil-water separator-OGI inspection (Section 28)	N/A in 2018	N/A in 2018
	Primary oil-water separator repair (Section 29)	N/A in 2018	N/A in 2018
	Primary oil-water separator record- general (Section 30)	March 1, 2018	March 1, 2018
	Primary oil-water separator inspection record (Section 31)	N/A in 2018	N/A in 2018
	Rim seal gap report- primary oil-water separator (Section 31)	N/A in 2018	N/A in 2018
	Rim seal gap report- primary oil-water separator (Section 32)	N/A in 2018	N/A in 2018
	Drains and maintenance access points-measurement and control requirements (Section 33)	July 1, 2019	N/A in 2018
	Drains and maintenance access points-measurement and control record (Section 34)	July 1, 2019	N/A in 2018
<b>Part V - Product Loading</b>	Benzene-containing product loading operations- application (Section 35 and 36)	July 28, 2017	July 28, 2017
	Vapour-tight cargo tanks (Section 37)	July 1, 2018	July 28, 2017
<b>Part VI - Leak Detection and Repair</b>	Component identification (Section 38)	July 28, 2017	July 28, 2017
	Component leak survey-general (Section 39)	January 1, 2018	January 1, 2018
	Component leak survey-assessment and measurement of leaks (Section 40)	January 1, 2018	January 1, 2018
	Component leak survey plan (Section 41)	April 30, 2018	April 30, 2018
	Additional leak measurements-pumps, compressors and pressure relief devices (Section 42)	January 1, 2023	N/A in 2018
	Leaks- deviations and repair (Section 43)	January 1, 2018	January 1, 2018
	Delay of repair list (Section 44)	January 1, 2020	N/A in 2018

PCIS Part	Applicable Provisions	Date the Provision Applies	Date Compliance was Achieved
	Re-measurement following component repair or replacement (Section 45)	January 1, 2018	N/A in 2018
	Component replacement (Section 46)	January 1, 2018	N/A in 2018
	Leaking components-annual calculation (Section 47)	June 30, 2018	June 30, 2018
	Records-component leak survey (Section 48)	January 1, 2018	January 1, 2018 (3)
	Records- additional leak measurements (Section 49)	January 1, 2023	N/A in 2018
<b>Part VII - Operation</b>	Technology requirements- open-ended valves (Section 50)	July 28, 2017	July 28, 2017
	Technology requirements- surge control vessels and bottoms receivers (Section 51)	January 1, 2020	N/A in 2018
	Operating parameter summary table (Section 52)	January 1, 2018	January 1, 2018
	Measurement of operating parameters (Section 53)	January 1, 2018	January 1, 2018
	Phase in for new pollution control devices (Section 54)	N/A in 2018	N/A in 2018
<b>Part VIII - Requirement to Continue The Use of Methods To Manage Emissions</b>	Identifying managed sources (Section 55)	July 28, 2017	July 28, 2017
	Requirement to continue the management of sources (Section 56)	July 28, 2017	July 28, 2017
	Changes to managed sources (Section 57)	July 28, 2017	July 28, 2017
	Specified source management (Section 58)	N/A in 2018	N/A in 2018
	Notification of changes to management of sources (Section 59)	N/A in 2018	N/A in 2018
<b>Part IX - Ambient Monitoring</b>	Ambient monitoring (Section 60)	January 1, 2018	December 27, 2017
	Measurements baseline (Section 61)	March 31, 2021	N/A in 2018
	Statistical analysis of ambient measurements (Section 62)	March 31, 2022	N/A in 2018
	Notification-ambient monitoring (Section 63)	March 31, 2022	N/A in 2018
<b>Part X - Complaints, Records and Reporting</b>	Complaints procedure (Section 64)	July 28, 2017	July 28, 2017
	Annual summary reports (Section 65)	January 1, 2019	March 31, 2019
	Public reporting- ambient monitoring (Section 66)	January 1, 2018	December 28, 2017
	Records (Section 67)	July 28, 2017	July 28, 2017

**Notes to the Table:**

- (1) NOVA Chemicals' Corunna Site was registered under the PCIS on July 28, 2017.
- (2) In 2018, there was one repair required by OGI that took longer than 200 days to complete.
- (3) The record required by ss. 48(2) was completed on June 30, 2018.

## Implementation Summary Table - 2019

This table summarizes the provisions of the PCIS which apply to the Site, the date on which each provision applies to the Site, and if compliance of the provision has been achieved, the date on which it was achieved.

PCIS Part	Applicable Provisions	Date the Provision Applies	Date Compliance was Achieved
<b>Part 1 - General</b>	Definitions (Section 1)	N/A	N/A
	Application (Section 2)	N/A	N/A
<b>Part II - Performance</b>	Leak measurement instrumentation (Section 3)	July 28, 2017 <sup>1</sup>	July 28, 2017
	Closed systems (Section 4)	July 28, 2017	July 28, 2017
	Flare (Section 5)	January 1, 2020	January 1, 2020
	Air pollution control devices (Section 6)	July 28, 2017	July 28, 2017
	Requirement to detect leaks (Section 7)	July 28, 2017	July 28, 2017
	Notification-performance requirements (Section 8)	July 28, 2017	N/A in 2019
<b>Part III - Storage Vessels</b>	Storage vessels identification (Section 9)	July 28, 2017	July 28, 2017
	Storage vessels- application (Section 10)	January 1, 2018	January 1, 2018
	Floating roof- requirement to float (Section 11)	January 1, 2018	January 1, 2018
	Internal floating roof -rim seal requirements (Section 12)	N/A in 2019	N/A in 2019
	External floating roof- rim seal requirements (Section 13)	January 1, 2025	N/A in 2019
	Floating roof deck fittings (Section 14)	January 1, 2025	N/A in 2019
	Deck covers-requirement to be closed (Section 15)	January 1, 2025	N/A in 2019
	Floating roof-visual inspection (Section 16)	January 1, 2018	July 18, 2019 <sup>2</sup>
	Storage vessels-OGI inspection (Section 17)	January 1, 2018	January 1, 2018
	Floating roof-seal gap inspection (Section 18)	January 1, 2018	Compliance requirements not yet triggered
	Storage vessel repair (Section 19)	January 1, 2018	January 1, 2018
	Requirement to notify-recurring repair (Section 20)	January 1, 2018	January 1, 2018
	Storage vessels in benzene service-general record (Section 21)	July 28, 2017	July 28, 2017
	Storage vessel inspection record (Section 22)	January 1, 2018	January 1, 2018
	Rim seal gap report-storage vessels (Section 23)	N/A in 2019	N/A in 2019

<b>Part IV - Air Emissions from Industrial Sewage</b>	Primary oil-water separators-requirement selection (Section 24)	March 1, 2018	October 26, 2017
	Primary oil-water separators-monitor and control requirements (Section 25)	July 1, 2018	July 1, 2018
	Primary oil-water separators floating roof-requirement to float (Section 26)	September 30, 2021	N/A in 2019
	Primary oil-water separators floating roof-rim seal gap inspection (Section 27)	September 30, 2021	N/A in 2019
	Primary oil-water separator-OGI inspection (Section 28)	September 30, 2021	N/A in 2019
	Primary oil-water separator repair (Section 29)	September 30, 2021	N/A in 2019
	Primary oil-water separator record- general (Section 30)	March 1, 2018	March 1, 2018
	Primary oil-water separator inspection record (Section 31)	September 30, 2021	N/A in 2019
	Rim seal gap report- primary oil-water separator (Section 31)	September 30, 2021	N/A in 2019
	Rim seal gap report- primary oil-water separator (Section 32)	September 30, 2021	N/A in 2019
	Drains and maintenance access points-measurement and control requirements (Section 33)	July 1, 2019	July 1, 2019
	Drains and maintenance access points-measurement and control record (Section 34)	July 1, 2019	July 1, 2019
<b>Part V - Product Loading</b>	Benzene-containing product loading operations- application (Section 35 and 36)	July 28, 2017	July 28, 2017
	Vapour-tight cargo tanks (Section 37)	July 1, 2018	July 28, 2017
<b>Part VI - Leak Detection and Repair</b>	Component identification (Section 38)	July 28, 2017	July 28, 2017
	Component leak survey-general (Section 39)	January 1, 2018	January 1, 2018
	Component leak survey-assessment and measurement of leaks (Section 40)	January 1, 2018	January 1, 2018
	Component leak survey plan (Section 41)	April 30, 2018	April 30, 2018
	Additional leak measurements-pumps, compressors and pressure relief devices (Section 42)	January 1, 2023	N/A in 2019
	Leaks- deviations and repair (Section 43)	January 1, 2018	January 1, 2018
	Delay of repair list (Section 44)	January 1, 2020	N/A in 2019
	Re-measurement following component repair or replacement (Section 45)	January 1, 2018	November 29, 2019 <sup>3</sup>

	Component replacement (Section 46)	January 1, 2018	July 23, 2019 <sup>4</sup>
	Leaking components-annual calculation (Section 47)	June 30, 2018	June 30, 2018
	Records-component leak survey (Section 48)	January 1, 2018	January 1, 2018 <sup>5</sup>
	Records- additional leak measurements (Section 49)	January 1, 2023	N/A in 2019
<b>Part VII - Operation</b>	Technology requirements- open-ended valves (Section 50)	July 28, 2017	July 28, 2017
	Technology requirements- surge control vessels and bottoms receivers (Section 51)	January 1, 2020	N/A in 2019
	Operating parameter summary table (Section 52)	January 1, 2018	January 1, 2018
	Measurement of operating parameters (Section 53)	January 1, 2018	January 1, 2018
	Phase in for new pollution control devices (Section 54)	N/A in 2019	N/A in 2019
<b>Part VIII - Requirement to Continue The Use of Methods To Manage Emissions</b>	Identifying managed sources (Section 55)	July 28, 2017	July 28, 2017
	Requirement to continue the management of sources (Section 56)	July 28, 2017	July 28, 2017
	Changes to managed sources (Section 57)	July 28, 2017	July 28, 2017
	Specified source management (Section 58)	N/A in 2019	N/A in 2019
	Notification of changes to management of sources (Section 59)	N/A in 2019	N/A in 2019
<b>Part IX - Ambient Monitoring</b>	Ambient monitoring (Section 60)	January 1, 2018	December 27, 2017
	Measurements baseline (Section 61)	March 31, 2021	N/A in 2019
	Statistical analysis of ambient measurements (Section 62)	March 31, 2022	N/A in 2019
	Notification-ambient monitoring (Section 63)	March 31, 2022	N/A in 2019
<b>Part X - Complaints, Records and Reporting</b>	Complaints procedure (Section 64)	July 28, 2017	July 28, 2017
	Annual summary reports (Section 65)	January 1, 2019	March 31, 2019
	Public reporting- ambient monitoring (Section 66)	January 1, 2018	December 28, 2017
	Records (Section 67)	July 28, 2017	July 28, 2017

**Notes:**

<sup>1</sup> NOVA Chemicals' Corunna Site was registered under the PCIS on July 28, 2017.

<sup>2</sup> The inspection was performed during the first tank outage in accordance with subsection 16(3).

<sup>3</sup> The re-measurement was the first required under Section 45

<sup>4</sup> The component replacement was the first required under Section 46

<sup>5</sup> The record required by subsection 48(2) was completed on June 30, 2018.

## Implementation Summary Table - 2020

Table 1 summarizes the provisions of the PCIS which apply to the Site, the date on which each provision applies to the Site, and if compliance of the provision has been achieved, the date on which it was achieved.

PCIS Part	Applicable Provisions	Date the Provision Applies	Date Compliance was Achieved
<b>Part 1 - General</b>	Definitions (Section 1)	N/A	N/A
	Application (Section 2)	N/A	N/A
<b>Part II - Performance</b>	Leak measurement instrumentation (Section 3)	July 28, 2017 <sup>1</sup>	July 28, 2017
	Closed systems (Section 4)	July 28, 2017	July 28, 2017
	Flare (Section 5)	January 1, 2020	January 1, 2020
	Air pollution control devices (Section 6)	July 28, 2017	July 28, 2017
	Requirement to detect leaks (Section 7)	July 28, 2017	July 28, 2017
	Notification-performance requirements (Section 8)	July 28, 2017	N/A in 2020
<b>Part III - Storage Vessels</b>	Storage vessels identification (Section 9)	July 28, 2017	July 28, 2017
	Storage vessels- application (Section 10)	January 1, 2018	January 1, 2018
	Floating roof- requirement to float (Section 11)	January 1, 2018	January 1, 2018
	Internal floating roof -rim seal requirements (Section 12)	N/A in 2020	N/A in 2020
	External floating roof- rim seal requirements (Section 13)	January 1, 2025	N/A in 2020
	Floating roof deck fittings (Section 14)	January 1, 2025	N/A in 2020
	Deck covers-requirement to be closed (Section 15)	January 1, 2025	N/A in 2020
	Floating roof-visual inspection (Section 16)	January 1, 2018	July 18, 2019 <sup>2</sup>
	Storage vessels-OGI inspection (Section 17)	January 1, 2018	January 1, 2018
	Floating roof-seal gap inspection (Section 18)	January 1, 2018	N/A in 2020
	Storage vessel repair (Section 19)	January 1, 2018	January 1, 2018
	Requirement to notify-recurring repair (Section 20)	January 1, 2018	January 1, 2018
	Storage vessels in benzene service-general record (Section 21)	July 28, 2017	July 28, 2017
	Storage vessel inspection record (Section 22)	January 1, 2018	January 1, 2018



	Rim seal gap report-storage vessels (Section 23)	N/A in 2020	N/A in 2020
<b>Part IV - Air Emissions from Industrial Sewage</b>	Primary oil-water separators-requirement selection (Section 24)	March 1, 2018	October 26, 2017
	Primary oil-water separators-monitor and control requirements (Section 25)	July 1, 2018	July 1, 2018
	Primary oil-water separators floating roof-requirement to float (Section 26)	September 30, 2021	N/A in 2020
	Primary oil-water separators floating roof-rim seal gap inspection (Section 27)	September 30, 2021	N/A in 2020
	Primary oil-water separator-OGI inspection (Section 28)	September 30, 2021	N/A in 2020
	Primary oil-water separator repair (Section 29)	September 30, 2021	N/A in 2020
	Primary oil-water separator record- general (Section 30)	March 1, 2018	March 1, 2018
	Primary oil-water separator inspection record (Section 31)	September 30, 2021	N/A in 2020
	Rim seal gap report- primary oil-water separator (Section 31)	September 30, 2021	N/A in 2020
	Rim seal gap report- primary oil-water separator (Section 32)	September 30, 2021	N/A in 2020
	Drains and maintenance access points-measurement and control requirements (Section 33)	July 1, 2019	July 1, 2019
	Drains and maintenance access points-measurement and control record (Section 34)	July 1, 2019	July 1, 2019
<b>Part V - Product Loading</b>	Benzene-containing product loading operations- application (Section 35 and 36)	July 28, 2017	July 28, 2017
	Vapour-tight cargo tanks (Section 37)	July 1, 2018	July 28, 2017
<b>Part VI - Leak Detection and Repair</b>	Component identification (Section 38)	July 28, 2017	July 28, 2017
	Component leak survey-general (Section 39)	January 1, 2018	January 1, 2018
	Component leak survey-assessment and measurement of leaks (Section 40)	January 1, 2018	January 1, 2018
	Component leak survey plan (Section 41)	April 30, 2018	April 30, 2018
	Additional leak measurements-pumps, compressors and pressure relief devices (Section 42)	January 1, 2023	N/A in 2020

	Leaks- deviations and repair (Section 43)	January 1, 2018	January 1, 2018
	Delay of repair list (Section 44)	January 1, 2020	January 1, 2020
	Re-measurement following component repair or replacement (Section 45)	January 1, 2018	November 29, 2019 <sup>3</sup>
	Component replacement (Section 46)	January 1, 2018	July 23, 2019 <sup>4</sup>
	Leaking components-annual calculation (Section 47)	June 30, 2018	June 30, 2018
	Records-component leak survey (Section 48)	January 1, 2018	January 1, 2018 <sup>5</sup>
	Records- additional leak measurements (Section 49)	January 1, 2023	N/A in 2020
<b>Part VII - Operation</b>	Technology requirements-open-ended valves (Section 50)	July 28, 2017	July 28, 2017
	Technology requirements-surge control vessels and bottoms receivers (Section 51)	January 1, 2020	N/A in 2020
	Operating parameter summary table (Section 52)	January 1, 2018	January 1, 2018
	Measurement of operating parameters (Section 53)	January 1, 2018	January 1, 2018
	Phase in for new pollution control devices (Section 54)	N/A in 2020	N/A in 2020
<b>Part VIII - Requirement to Continue the Use of Methods To Manage Emissions</b>	Identifying managed sources (Section 55)	July 28, 2017	July 28, 2017
	Requirement to continue the management of sources (Section 56)	July 28, 2017	July 28, 2017
	Changes to managed sources (Section 57)	July 28, 2017	July 28, 2017
	Specified source management (Section 58)	N/A in 2020	N/A in 2020
	Notification of changes to management of sources (Section 59)	N/A in 2020	N/A in 2020
<b>Part IX - Ambient Monitoring</b>	Ambient monitoring (Section 60)	January 1, 2018	December 27, 2017
	Measurements baseline (Section 61)	March 31, 2021	March 31, 2021
	Statistical analysis of ambient measurements (Section 62)	March 31, 2022	N/A in 2020
	Notification-ambient monitoring (Section 63)	March 31, 2022	N/A in 2020
<b>Part X - Complaints,</b>	Complaints procedure (Section 64)	July 28, 2017	July 28, 2017
	Annual summary reports (Section 65)	January 1, 2019	March 31, 2019

<b>Records and Reporting</b>	Public reporting- ambient monitoring (Section 66)	January 1, 2018	December 28, 2017
	Records (Section 67)	July 28, 2017	July 28, 2017

**Notes to Table 1:**

- <sup>1</sup> NOVA Chemicals' Corunna Site was registered under the PCIS on July 28, 2017.
- <sup>2</sup> The inspection was performed during the first tank outage in accordance with subsection 16(3).
- <sup>3</sup> The re-measurement was the first required under Section 45
- <sup>4</sup> The component replacement was the first required under Section 46
- <sup>5</sup> The record required by subsection 48(2) was completed on June 30, 2018.