

NPDES Permit Rating Work Sheet

- Regular Addition
- Discretionary Addition
- Score change, but no status change
- Deletion

NPDES No.: TN0065081

Facility Name:
Arconic LLC - South Plant

City: Alcoa

Receiving Water: Duncan Branch

Reach Number: 6010201026

Is this facility a steam electric power plant (SIC=4911) with one or more of the following characteristics?

1. Power output 500 MW or greater (not using a cooling pond/lake)
2. A nuclear power plant
3. Cooling water discharge greater than 25% of the receiving stream's 7Q10 flow rate

YES; score is 600 (stop here) NO (continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

- YES; score is 700 (stop here)
 NO (continue)

FACTOR 1: Toxic Pollutant Potential

PCS SIC Code: 3341 Primary SIC Code: _____

Other SIC Codes: _____

Industrial Subcategory Code: 1 (Code 000 if no subcategory)

Determine the Toxicity potential from Appendix A. (Be sure to use the TOTAL toxicity potential column and check one)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input type="checkbox"/> No process waste streams	0	0	<input type="checkbox"/> 3.	3	15	<input type="checkbox"/> 7	7	35
<input type="checkbox"/> 1.	1	5	<input type="checkbox"/> 4.	4	20	<input checked="" type="checkbox"/> 8.	8	40
<input type="checkbox"/> 2.	2	10	<input type="checkbox"/> 5.	5	25	<input type="checkbox"/> 9.	9	45
			<input type="checkbox"/> 6.	6	30	<input type="checkbox"/> 10.	10	50

Code Number Checked: _____

Total Points Factor 1: 40

FACTOR 2: Flow/Stream Flow Volume (Complete either Section A or Section B; check only one)

Section A - Wastewater Flow Only Considered

Wastewater type (See Instructions)	Code	Points
Type I: Flow < 5 MGD	<input type="checkbox"/> 11	0
Flow 5 to 10 MGD	<input type="checkbox"/> 12	10
Flow > 10 to 50 MGD	<input type="checkbox"/> 13	20
Flow > 50 MGD	<input type="checkbox"/> 14	30
Type II: Flow < 1 MGD	<input type="checkbox"/> 21	10
Flow 1 to 5 MGD	<input type="checkbox"/> 22	20
Flow > 5 to 10 MGD	<input type="checkbox"/> 23	30
Flow > 10 MGD	<input type="checkbox"/> 24	50
Type III: Flow < 1 MGD	<input type="checkbox"/> 31	0
Flow 1 to 5 MGD	<input type="checkbox"/> 32	10
Flow > 5 to 10 MGD	<input type="checkbox"/> 33	20
Flow > 10 MGD	<input type="checkbox"/> 34	30

Section B - Wastewater and Stream Flow Considered

Wastewater type (See Instructions)	Percent of Instream Wastewater Concentration at Receiving Stream Low Flow	Code	Points
Type I/III:	< 10%	<input type="checkbox"/> 41	0
	≥ 10% to < 50%	<input type="checkbox"/> 42	10
	≥ 50%	<input checked="" type="checkbox"/> 43	20
Type II	< 10%	<input type="checkbox"/> 51	0
	≥ 10% to < 50%	<input type="checkbox"/> 52	20
	≥ 50%	<input type="checkbox"/> 53	30

Code Checked from Section A or B: _____

Total Points Factor 2: 20

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FACTOR 3: Conventional Pollutants
(only when limited by the permit)

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A. Oxygen Demanding Pollutants (check one) BOD COD OTHER: _____

Permit Limits (check one)			Code	Points
<input checked="" type="checkbox"/>	<100 lbs/day		1	0
<input type="checkbox"/>	100 to 1000 lbs/day		2	5
<input type="checkbox"/>	>1000 to 3000 lbs/day		3	15
<input type="checkbox"/>	>3000 lbs/day		4	20

Code Checked: _____
Points Scored: 0

B. Total Suspended Solids (TSS)

Permit Limits (check one)			Code	Points
<input type="checkbox"/>	<100 lbs/day		1	0
<input type="checkbox"/>	100 to 1000 lbs/day		2	5
<input type="checkbox"/>	>1000 to 5000 lbs/day		3	15
<input checked="" type="checkbox"/>	>5000 lbs/day		4	20

Code Checked: _____
Points Scored: 20

C. Nitrogen Pollutants (check one) Ammonia OTHER: _____

Permit Limits (check one)	Nitrogen Equivalent		Code	Points
<input checked="" type="checkbox"/>	<300 lbs/day		1	0
<input type="checkbox"/>	300 to 1000 lbs/day		2	5
<input type="checkbox"/>	>1000 to 3000 lbs/day		3	15
<input type="checkbox"/>	>3000 lbs/day		4	20

Code Checked: _____
Points Scored: 0

Total Points Factor 3: 20

FACTOR 4: Public Health Impact

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving water is a tributary)? A public drinking water supply may include infiltration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

- YES (if yes, check toxicity potential number below)
 NO (if no, go to Factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC Code and subcategory reference as in Factor 1. (Be sure to use the human health toxicity group column and **check one below**)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
<input type="checkbox"/> No process waste streams	0	0	<input type="checkbox"/> 3.	3	0	<input type="checkbox"/> 7.	7	15
<input checked="" type="checkbox"/> 1.	1	0	<input type="checkbox"/> 4.	4	0	<input type="checkbox"/> 8.	8	20
<input type="checkbox"/> 2.	2	0	<input type="checkbox"/> 5.	5	5	<input type="checkbox"/> 9.	9	25
			<input type="checkbox"/> 6.	6	10	<input type="checkbox"/> 10.	10	30

Code Number Checked: _____
Total Points Factor 4: 0

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FACTOR 5: Water Quality Factors

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A. Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the discharge?

	Code	Points
<input type="checkbox"/> YES	1	10
<input checked="" type="checkbox"/> NO	2	0

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

	Code	Points
<input type="checkbox"/> YES	1	0
<input checked="" type="checkbox"/> NO	2	5

C. Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

	Code	Points
<input checked="" type="checkbox"/> YES	1	10
<input type="checkbox"/> NO	2	0

Code Number Checked: **A.** **B.** **C.**

Total Points Factor 5 A. 0 + B. 5 + C. 10 = 15

FACTOR 6: Proximity to Near Coastal Waters

A. Base Score: Enter flow code here (from Factor 2): _____

Enter the multiplication factor that corresponds to the flow code: 0.00

Check appropriate facility HPRI Code (from PSC):

	HPRI#	Code	HPRI Score
<input type="checkbox"/>	1	1	20
<input type="checkbox"/>	2	2	0
<input type="checkbox"/>	3	3	30
<input type="checkbox"/>	4	4	0
<input type="checkbox"/>	5	5	20

Flow code	Multiplication Factor
11, 31, or 41	0.00
12, 32, or 42	0.05
13, 33, or 43	0.10
14 or 34	0.15
21 or 51	0.10
22 or 52	0.30
23 or 53	0.60
24	1.00

HPRI Code Checked:

Base Score (HPRI Score) 0 x (Multiplication Factor) 0.00 = 0 (Total Points)

B. Additional Points – NEP Program

For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions) or the Chesapeake Bay?

	Code	Points
<input type="checkbox"/> YES	1	10
<input type="checkbox"/> NO	2	0

C. Additional Points – Great Lakes Area of Concern

For a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern (see instructions)?

	Code	Points
<input type="checkbox"/> YES	1	10
<input type="checkbox"/> NO	2	0

Code Number Checked: **A.** **B.** **C.**

Total Points Factor 6 A. 0 + B. 0 + C. 0 = 0

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Score Summary

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Factor	Description	Total Points
1.	Toxic Pollutant Potential	<u>40</u>
2.	Flow/Streamflow Volume	<u>20</u>
3.	Conventional Pollutants	<u>20</u>
4.	Public Health Impacts	<u>0</u>
5.	Water Quality Factors	<u>15</u>
6.	Proximity to Near Coastal Waters	<u>0</u>
TOTAL (Factors 1 through 6)		<u>95</u>

S1. Is the total score equal to or greater than 80? YES (Facility is a major) NO

S2. If the answer to the above question is no, would you like this facility to be discretionary major?

NO

YES (Add 500 points to the above score and provide reason below:

Reason: _____

NEW SCORE: 95

OLD SCORE: _____

Oscar Montenegro

Permit Reviewer's Name

(615) 532-0623

Phone Number

07/12/2022

Date

Reset Form