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DEQ AIR QUALITY PROGRAM
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For assistance, call the
Air Permit Hotline - 1-877-5PERMIT

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE AIR PROGRAM

General Information - Form GI
02/8/22

Please see instructions on second page before filling out the form.

Facility and Permit Information form with fields for Facility Name, ID Number, Description, Contact Info, Address, County, Portability, NAICS codes, Permit Application Type, and incorporation options.

Certification of Truth, Accuracy, and Completeness (by Responsible Official)

I hereby certify that based on information and belief formed after reasonable inquiry, the statements and information contained in this and any attached and/or referenced document(s) are true, accurate, and complete in accordance with IDAPA 58.01.01.123 124.

Responsible Official Signature (Handwritten Signature)

Regional Environmental Manager
Responsible Official Title

5/19/2023
Date

Joseph Smith
Print or Type Responsible Official Name



Please see instructions on pages 4-7 before filling out the form.

IDENTIFICATION

1. Company Name		2. Facility Name:	
Knife River Corporation - Mountain West		LO-PRO 250	
3. Project Description (provide a complete description of the equipment or activity being permitted):		New Permit for a COC-E-CO LoPro 250 portable concrete plant. The plant will run on line power and the generator will be for EMERGENCY USE ONLY.	

GENERAL INFORMATION

4. Proposed Location of the Concrete Batch Plant (CBP) and other plant details:	<input type="checkbox"/> Not portable, will remain at <u>one</u> location. Note: Please include a specific location (location address, UTM coordinates, Section, Township, Range, etc.) and a plot plan of the proposed location, including boundaries, structures, and emissions points, on a separate sheet.		
	<input checked="" type="checkbox"/> Portable throughout the entire state of Idaho. If portable, will the CBP plant stay at one location for more than 12 months? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (The permittee will be required to relocate the permitted CBP production equipment to a different aggregate pit or storage area at least once every 12 months.)		
Has this CBP been previously permitted? <input type="checkbox"/> Yes (provide details) <input checked="" type="checkbox"/> No			
Will the facility use electrical line power (no IC engines powering generators)? <input checked="" type="checkbox"/> Yes (IC engines sections below may be skipped) <input type="checkbox"/> No			
Will the facility use IC engines to generate electricity? <input checked="" type="checkbox"/> Yes (complete the IC engine sections below) <input type="checkbox"/> No			
Will the facility produce concrete at the same time as when aggregate is being crushed at the facility? <input checked="" type="checkbox"/> Yes (provide details) <input type="checkbox"/> No			
Selecting either of the following options will result in a smaller required set-back distance from the property line:			
Will the facility produce concrete on a seasonal basis? <input type="checkbox"/> Yes (Note: operation will be limited between April 1 st and November 30 th) <input checked="" type="checkbox"/> No			
If two IC engines are used at the facility to provide electricity, will they need to be operated simultaneously? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (larger set-back)			

CONCRETE BATCH PLANT SPECIFICATIONS

5. Manufacturer: <u>CON-E-CO</u>	6. Model: <u>LO-PRO 250</u>	7. Date Manufactured: <u>2016</u>
8. Loadout Type (check one): <input checked="" type="checkbox"/> Truck Mix <input type="checkbox"/> Central Mix		
9. Number of Transfer Points: <u>6</u>		
10. Rated Production Capacity: <u>150</u> yd ³ /hr <u>3600</u> yd ³ /day <u>800,000</u> yd ³ /yr		
11. Proposed Throughput Limitations: <u>1800</u> yd ³ /day <u>400,000</u> yd ³ /yr Note: These concrete production limits will be placed in the permit.		
12. Concrete Loadout Controls: <input type="checkbox"/> Truck Mix w/ Shroud <input type="checkbox"/> Truck Mix w/ Water Ring <input checked="" type="checkbox"/> Truck Mix w/ Baghouse <input type="checkbox"/> Central Mix w/ Baghouse		
13. Fugitive Dust Controls: <input checked="" type="checkbox"/> Best Management Practices (BMPs) <input type="checkbox"/> Control of aggregate piles with covered three-sided bunkers and the use of dust suppressants when the aggregate piles are not being used		

TRUCK LOADOUT BAGHOUSE SPECIFICATIONS (If Applicable)

14. Manufacturer: <u>CON-E-CO</u>	15. Model: <u>PJC-300S</u>
16. Rated Flow rate: <u>1500</u> acfm	17. PM ₁₀ Control Efficiency: <u>99.9</u> %
18. Exhaust Diameter or Dimensions (L x W): <u>18 x 24</u> in	19. Exhaust Discharge Height (from ground): <u>40</u> ft
20. Exhaust Orientation: <input checked="" type="checkbox"/> Vertical (unobstructed upward) <input type="checkbox"/> Vertical (obstructed upward) <input type="checkbox"/> Vertical (unobstructed downward) <input type="checkbox"/> Horizontal	

WEIGH BATCHER BAGHOUSE SPECIFICATIONS

21. Manufacturer: _____	22. Model: _____
23. Rated Flow rate: _____ acfm	24. PM ₁₀ Control Efficiency: _____ %
25. Exhaust Diameter or Dimensions (L x W): _____ in	26. Exhaust Discharge Height (from ground): _____ ft
27. Exhaust Orientation: <input type="checkbox"/> Vertical (unobstructed upward) <input type="checkbox"/> Vertical (obstructed upward) <input type="checkbox"/> Vertical (unobstructed downward) <input type="checkbox"/> Horizontal	

CEMENT STORAGE SILO BIN VENT FILTER/BAGHOUSE SPECIFICATIONS

28. Manufacturer: CON-E-CO 29. Model: PJC-300S 30. Silo Storage Capacity: 60 yd³
31. Rated Flow rate: 1500 acfm 32. PM₁₀ Control Efficiency: 99.9 %
33. Exhaust Diameter or Dimensions (L x W): 8 x 40 in 34. Exhaust Discharge Height (from ground): 48 ft
35. Exhaust Orientation: Vertical Upward (unobstructed) Vertical Downward (obstructed) Vertical Downward (unobstructed) Horizontal

SECOND CEMENT STORAGE SILO BIN VENT FILTERS/BAGHOUSE SPECIFICATIONS (If Applicable)

36. Manufacturer: _____ 37. Model: _____ 38. Silo Storage Capacity: _____ yd³
39. Rated Flow rate: _____ acfm 40. PM₁₀ Control Efficiency: _____ %
41. Exhaust Diameter or Dimensions (L x W): _____ in 42. Exhaust Discharge Height (from ground): _____ ft
43. Exhaust Orientation: Vertical Upward (unobstructed) Vertical Downward (obstructed) Vertical Downward (unobstructed) Horizontal

FLY ASH STORAGE SILO BIN VENT FILTERS/BAGHOUSE SPECIFICATIONS

44. Manufacturer: CON-E-CO 45. Model: PJC-300S 46. Silo Storage Capacity: 48.5 yd³
47. Rated Flow rate: 1500 acfm 48. PM₁₀ Control Efficiency: 99.9 %
49. Exhaust Diameter or Dimensions (L x W): 8 x 40 in 50. Exhaust Discharge Height (from ground): 22 ft
51. Exhaust Orientation: Vertical Upward (unobstructed) Vertical Downward (obstructed) Vertical Downward (unobstructed) Horizontal

SECOND FLY ASH STORAGE SILO BIN VENT FILTERS/BAGHOUSE SPECIFICATIONS (If Applicable)

52. Manufacturer: _____ 53. Model: _____ 54. Silo Storage Capacity: _____ yd³
55. Rated Flow rate: _____ acfm 56. PM₁₀ Control Efficiency: _____ %
57. Exhaust Diameter or Dimensions (L x W): _____ in 58. Exhaust Discharge Height (from ground): _____ ft
59. Exhaust Orientation: Vertical Upward (unobstructed) Vertical Downward (obstructed) Vertical Downward (unobstructed) Horizontal

BOILER/WATER HEATER SPECIFICATIONS

60. Manufacturer: Sioux 61. Model: M-1 62. Date Manufactured: _____
63. Rated Heat Input: 1.0 MMBtu/hr
64. Daily Operating Hours: 12 hrs/day 65. Annual Operating Hours: 3120 hrs/yr
Note: These limits may be placed in the permit and will also apply to the second boiler (if one is used).
66. Fuel combusted: Natural gas/LNG LPG/propane Distillate fuel Electric (If heater is solely electric, skip questions 67-70)
If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)
67. Exhaust Diameter: 12 in 68. Exhaust Discharge Height (from ground): 12 ft 69. Exhaust Temperature: 200 °F
70. Exhaust Orientation: Vertical Upward (unobstructed) Vertical Downward (obstructed) Vertical Downward (unobstructed) Horizontal

SECOND BOILER/WATER HEATER SPECIFICATIONS (If Applicable)

71. Manufacturer: _____ 72. Model: _____ 73. Date Manufactured: _____
74. Rated Heat Input: _____ MMBtu/hr
75. Fuel combusted: Natural gas/LNG LPG/propane Distillate fuel Electric (If heater is solely electric, skip questions 76-79)
If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)
76. Exhaust Diameter: _____ in 77. Exhaust Discharge Height (from ground): _____ ft 78. Exhaust Temperature: _____ °F
79. Exhaust Orientation: Vertical Upward (unobstructed) Vertical Downward (obstructed) Vertical Downward (unobstructed) Horizontal

PRIMARY IC ENGINE (≥600 bhp) SPECIFICATIONS (If Applicable)

80. IC Engine Manufacturer: CATERPILLAR 81. Model: SR4B 82. Date Manufactured: 2007 83. Model year: 2001

84. Maximum rated horsepower (per the data plate): 1372 bhp 85. EPA Certification: Tier rating number 2 or None

86. Maximum daily operation: 12 hrs/day 87. Maximum annual operation: 3120 hrs/yr **Note:** These operational limits will be placed in the permit.

88. Fuel(s) combusted in the IC engine? Distillate fuel oil Natural gas/LNG LPG/propane
If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)

89. IC engine exhaust stack parameters: Diameter 8 inches Height 20 feet Temperature 718 °F Flow rate 2050 acfm

Questions 90 through 92 apply to non-Tier certified IC engines rated at > 300 bhp or Tier certified IC engines rated at > 300 bhp and manufactured prior to July 11, 2005 because these IC engines need demonstrate compliance with 40 CFR 63 Subpart ZZZZ.

90. How will CO emissions be limited? (Select one)
 Emissions will be limited to a specific ppmvd (i.e. 49 or 23).
 Emissions will be reduced by 70% or more.

91. If the IC Engine is rated at > 500 bhp, how will parameters/pollutants of the IC engine be measured? (Select one)
 A CEMS, Continuous Emissions Monitoring System. (If CEMS selected, the engine must be equipped with an oxidation catalyst and Question 40 must be answered Yes.)
 A CPMS, Continuous Parameters Monitoring System.

92. Will the IC engine be equipped with an oxidation catalyst? Yes No

SECONDARY IC ENGINE (<600 bhp) SPECIFICATIONS (If Applicable)

93. IC Engine Manufacturer: _____ 94. Model: _____ 95. Date Manufactured: _____ 96. Model year: _____

97. Maximum rated horsepower (per the data plate): _____ bhp 98. EPA Certification: Tier rating number _____ or None

99. Maximum daily operation: _____ hrs/day 100. Maximum annual operation: _____ hrs/yr **Note:** These operational limits will be placed in the permit.

101. Fuel(s) combusted in the IC engine? Distillate fuel oil Natural gas/LNG LPG/propane
If distillate fuel oil (#1, #2, or a mixture) is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)

102. IC engine exhaust stack parameters: Diameter _____ inches Height _____ feet Temperature _____ °F Flow rate _____ acfm

Questions 103 through 105 apply to non-Tier certified IC engines rated at > 300 bhp or Tier certified IC engines rated at > 300 bhp and manufactured prior to July 11, 2005 because these IC engines need demonstrate compliance with 40 CFR 63 Subpart ZZZZ.

103. How will CO emissions be limited? (Select one)
 Emissions will be limited to a specific ppmvd (i.e. 49 or 23).
 Emissions will be reduced by 70% or more.

104. If the IC Engine is rated at >500 bhp, how will parameters/pollutants of the IC engine be measured? (Select one)
 A CEMS, Continuous Emissions Monitoring System. (If CEMS selected, the engine must be equipped with an oxidation catalyst and Question 10 must be answered Yes.)
 A CPMS, Continuous Parameters Monitoring System.

105. Will the IC engine be equipped with an oxidation catalyst? Yes No