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Asphalt Plant - Form HMAP

Revision 9
 11/17/11

DEPARTMENT OF ENVIRONMENTAL QUALITY
 STATE AID PROGRAM

Please see instructions on pages 3-4 before filling out the form.

IDENTIFICATION

1. Company Name H K CONTRACTORS, INC.		2. Facility Name: 141 PORTABLE ASTEC HOT PLANT	
3. Brief Project Description: TRANSFERRING A 2000 ASTEC HOT PLANT IN TO REPLACE ANOTHER HOT PLANT			

GENERAL INFORMATION

4. Proposed Location of the Asphalt Plant and other plant details:

Not portable, will remain at one location. Note: Please include a specific location (location address, UTM coordinates, Section, Township, Range, etc.) and a plot plan of the proposed location on a separate sheet.

Portable throughout the entire state of Idaho. Has this asphalt plant been previously permitted? Yes (provide details) No

Will the facility use electrical line power (no IC engines powering generators)? Yes (IC engine sections below may be skipped) No

Will the facility use IC engines to generate electricity? Yes (complete the IC engine sections below) No

Will the facility produce asphalt at the same time as when aggregate is being crushed at the facility? Yes (provide details) No

ASPHALT DRUM DRYER SPECIFICATIONS

5. Drum Dryer Manufacturer: ASTEC 6. Model: 400 T 7. Date Manufactured: 2000

8. Rated heat input capacity: 120 MMBtu/hr 9. Maximum Asphalt Production: 400 T/hr 6400 T/day 1,000,000 T/yr

10. Maximum percentage of Recycled Asphalt Product (RAP) to be used? 50 % Note: Up to 50% can be allowed.

11. Are emissions from filling of the asphalt storage silo routed back to the drum dryer? Yes No 12. Date of the most recent source test: _____

13. Fuel(s) combusted in the drum dryer (check all that apply)? Distillate (#2) fuel oil Used oil/RFO4 oil Natural gas/LNG LPG/propane
 If distillate fuel oil or used oil/RFO4 oil is used, what is the maximum sulfur content? 15 ppm (0.0015% by weight) 500 ppm (0.05% by weight)

14. Does the drum dryer have an emissions control device? Yes No
 If "yes", what emissions control device is used? Baghouse (also complete Form BCE) Scrubber (also complete Form SCE)

15. Drum dryer exhaust stack parameters: Diameter 48 inches Height 23.25 feet Temperature 280 °F Flow rate 67000 acfm

ASPHATIC OIL TANK HEATER SPECIFICATIONS

16. Asphaltic Oil Tank Heater Manufacturer: HEATEC 17. Model: HT-30P 18. Rated heat input capacity: 1.5 MMBtu/hr

19. Is worst-case operation of the heater greater than 8 hrs/day or 2,000 hrs/yr? No Go to question 22 Yes Answer questions 20 and 21

20. If "Yes", what is the maximum daily operation: 16 hrs/day 21. If "Yes", what is the maximum annual operation: 5000 hrs/yr

22. Fuel combusted in the asphaltic oil tank heater? Distillate fuel 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)

23. Tank heater exhaust stack parameters: Diameter 12 inches Height 15 feet Temperature 450 °F Flow rate _____ acfm

PRIMARY IC ENGINE (≥600 bhp) SPECIFICATIONS

24. IC Engine Manufacturer: CATERPILLAR 25. Model: 3508 26. Date Manufactured: _____ 27. Model year: 1995

28. Maximum rated horsepower (per the data plate): 1000 bhp 29. EPA Certification: Tier rating number II or None

30. Maximum daily operation: 16 hrs/day 31. Maximum annual operation: 5000 hrs/yr Note: These operational limits will be placed in the permit.

32. Fuel 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)

33. IC engine exhaust stack parameters: Diameter 10 inches Height 13.5 feet Temperature 856 °F Flow rate 8536 acfm

Questions 34 through 39 apply to non-Tier certified IC engines or Tier certified IC engines manufactured prior to July 11, 2005. If you are proposing a Tier certified IC engine manufactured on and after July 11, 2005 do not answer questions 34 through 39.

34. Will CO emissions be limited to a specific ppmvd (i.e. 49 or 23)? Yes No 35. Will CO emissions be reduced by 70% or more? Yes No

36. Will a CEMS (Continuous Emissions Monitoring System) be used to measure pollutants in the IC engine exhaust stream? Yes No

37. Will a CPMS (Continuous Parameters Monitoring System) be used to measure parameters of the IC engine exhaust stream? Yes No

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

39. Will the oxidation catalyst be equipped with a temperature measurement system to ensure it is operating properly? Yes No

SECONDARY IC ENGINE (<600 bhp) SPECIFICATIONS

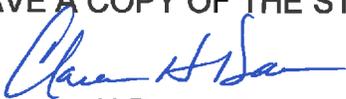
40. IC Engine Manufacturer: CATERPILLAR 41. Model: 3116 42. Date Manufactured: _____ 43. Model year: 1995
44. Maximum rated horsepower (per the data plate): 95 bhp 45. EPA Certification: Tier rating number II or None
46. Maximum daily operation: 16 hrs/day 47. Maximum annual operation: 5000 hrs/yr **Note:** These operational limits will be placed in the permit.
48. Fuel 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)
49. IC engine exhaust stack parameters: Diameter 4 inches Height 6 feet Temperature 524 °F Flow rate 17.5 acfm
- Questions 50 through 55 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. If you are proposing a non-Tier certified IC engine rated at ≤ 300 bhp or a Tier certified IC engine rated at ≤ 300 bhp and manufactured on and after July 11, 2005 do not answer questions 50 through 55.
50. Will CO emissions be limited to a specific ppmvd (i.e. 49 or 23)? Yes No 51. Will CO emissions be reduced by 70% or more? Yes No
52. Will a CEMS (Continuous Emissions Monitoring System) be used to measure pollutants in the IC engine exhaust stream? Yes No
53. Will a CPMS (Continuous Parameters Monitoring System) be used to measure parameters of the IC engine exhaust stream? Yes No
54. Will the IC engine be equipped with an oxidation catalyst? Yes No
55. Will the oxidation catalyst be equipped with a temperature measurement system to ensure it is operating properly? Yes No

THIS PLANT WAS PERMITTED IN OKLAHOMA BY THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY IN 2003. IT HAS OPERATED IN AND AROUND FAIRLAND, OKLAHOMA. THE LOCATION IS LISTED AS FOLLOWS:

SECTION 2, T26N, R23E, IM. FAIRLAND, OTTAWA COUNTY, OKLAHOMA

THE BAGHOUSE IS AN ASTEC 67,000 CFM PULSE JET, PBH-67. THE DESIGN PRESSURE DROP OF THE BAGHOUSE ACROSS THE TUBE SHEET IS 2 TO 6 INCHES OF WATER WITH OVERALL EFFICIENCY OF 99.85%.

A STACK TEST WAS COMPLETED BUT NOT SURE OF DATE AND H K DOES NOT HAVE A COPY OF THE STACK TEST.



Clarence H Davis, Environmental Manager, H K Contractors, Inc. 3/5/2013