Please see instructions on pages 3-5 before filling out the form.

**IDENTIFICATION**

<table>
<thead>
<tr>
<th>1. Company Name</th>
<th>2. Facility Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK Contractors Inc.</td>
<td>142 Hot Plant</td>
</tr>
</tbody>
</table>

3. Brief Project Description: We are upgrading the existing hot plant with a new 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.
- No (Note: The permittee will be required to relocate the permitted HMA production equipment to a different aggregate pit or storage area at least once every 12 months.)

5. Portable throughout the entire state of Idaho.

If portable, will the HMA plant stay at one location for more than 12 months? ☐ Yes ☐ No (Note: The permittee will be required to relocate the permitted HMA production equipment to a different aggregate pit or storage area at least once every 12 months.)

- ☑ 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 engines 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 (Note: Daily maximum asphalt production will be limited to ½ on days that aggregate is being crushed) ☑ No
- ☑ Note: Selecting either of the following options will result in a smaller required set-back distance from the property line:
- ☑ If the facility produce asphalt on a seasonal basis? ☑ Yes (Note: Operation will be limited between April 1st and November 30th) ☑ No
- ☑ If two IC engines are used at the facility to provide electricity, will they need to be operated simultaneously? ☑ Yes (larger set-back) ☑ No

**ASPHALT DRUM DRYER SPECIFICATIONS**

5. Drum Dryer Manufacturer: Astec
6. Model: Unified Counterflow
7. Date Manufactured: 2022

8. Drum Dryer Burner Manufacturer: Astec
9. Model: Whisper Jet 75
10. Date Manufactured: 2022

11. Rated heat input capacity: 8250 MMBtu/hr

12. Maximum Asphalt Production: 300 T/hr 4,200 T/day 600,000 T/yr

13. Drum dryer exhaust flow compared to asphalt flow: ☑ Parallel-flow ☑ Counter-flow

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

15. Are emissions from filling of the asphalt storage silo routed back to the drum dryer? ☑ Yes ☑ No

16. Date of the most recent source test: (Provide copies) or ☑ The plant is new and has never been source tested.

17. Fuel(s) combusted in the drum dryer (check all that apply)?
- ☑ Distillate (#2) fuel oil
- ☑ Used oil/RFO4 oil
- ☑ Natural gas/LNG
- ☑ LPG/propane
- ☑ Biodiesel

If distillate fuel oil or used oil/RFO4 oil is used, what is the maximum sulfur content?

- ☑ Distillate (#2) fuel oil: 15 ppm (0.0015% by weight)
- ☑ Used oil/RFO4 oil: 500 ppm (0.05% by weight)
- ☑ Other – List the sulfur content % by weight

Used oil/RFO4 oil: 1,000 ppm (0.1% by weight is the lowest available)

- ☑ Other – List the sulfur content of used oil/RFO4 oil % by weight (if higher than 0.1% by weight, not to exceed 0.5% by weight)

18. 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)

19. Drum dryer exhaust stack parameters: Diameter 50-1/4 inches Height 30 feet Temperature °F Flow rate acfm

Page 1
ASPHATIC OIL TANK HEATER SPECIFICATIONS


23. Is worst-case operation of the heater greater than 8 hrs/day or 2,000 hrs/yr? No  Go to question 27  Yes  Answer questions 24 and 25

24. If "Yes", what is the maximum daily operation: 12 ___ hrs/day  25. If "Yes", what is the maximum annual operation: 3240 ____ hrs/yr

26. Fuel combusted in the asphaltic oil tank heater? ☑ Distillate fuel  ☐ Natural gas/LNG  ☑ LPG/propane  ☐ Biodiesel  ☐ Electric

(If heater is solely electric, skip question 27)

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)

27. Tank heater exhaust stack parameters: Diameter _____ inches  Height _____ feet  Temperature _____ °F  Flow rate _____ acfm

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


32. Maximum rated horsepower (per the data plate): ________ bhp  33. EPA Certification: Tier rating number ______ or ☐ None

34. Maximum daily operation: ____ hrs/day  35. Maximum annual operation: ______ hrs/yr  Note: These operational limits will be placed in the permit.

36. 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)

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

Questions 38 through 40 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.

38. 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.

39. 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.

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

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

41. IC Engine Manufacturer:  42. Model:  43. Date Manufactured:  44. Model year:  

45. Maximum rated horsepower (per the data plate): ________ bhp  46. EPA Certification: Tier rating number ______ or ☐ None

47. Maximum daily operation: ____ hrs/day  48. Maximum annual operation: ______ hrs/yr  Note: These operational limits will be placed in the permit.

49. 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)

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

Questions 51 through 53 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.

51. 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.

52. 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.

53. Will the IC engine be equipped with an oxidation catalyst?  ☐ Yes  ☐ No
Instructions for Form HMAP

Please refer to IDAPA 58.01.01.220 for a list of the general exemption criteria for Permit to Construct exemptions.

1 – 3. Provide the same company name, facility name (if different), and brief project description as on Form GI. This is useful if the application pages are separated.

USE ATTACHMENT IF ADDITIONAL SPACE IS REQUIRED.

General Information:

4. Check whether the asphalt plant will be located at a specific location or will be portable throughout the entire state of Idaho.

   Also explain if the plant has been previously permitted and provide details if it has been.

   In addition, specify whether the asphalt plant will use electrical line power or will use IC engines powering electrical generators to operate.

   In addition, specify if the facility will produce asphalt at the same time as when aggregate is being crushed at the facility.

   Specify whether the facility will produce asphalt on a seasonal basis. If a reduced seasonal operation is selected, then the setback distances from the property line will be reduced but additional recordkeeping will be required.

   Specify whether both IC engines (if needed to generate electricity at the facility) will need to be operated simultaneously. If the no simultaneous operation is selected, then the setback distances from the property line will be reduced but additional recordkeeping will be required.

Asphalt Drum Dryer Specifications:

5-7. Provide the drum dryer manufacturer, model, and the date the drum dryer was manufactured.

8-10. Provide the drum dryer burner manufacturer, model, and the date the drum dryer burner was manufactured.

11. Provide the heat input capacity of the drum dryer burner (per the data plate) in MMBtu/hr.

12. Propose maximum hourly, daily, and annual asphalt production limits. Note: These proposed production limits will be placed in the permit.

13. Specify the type of drum dryer being proposed, parallel-flow or counter-flow.

14. Propose a maximum percentage of Recycled Asphalt Product (RAP) that will be used at the facility. Note: Percentages of up to 50% RAP can be approved provided that compliance with all permit limits can be demonstrated during the required source test at the proposed RAP percentage.

15. State whether or not emissions from filling of the asphalt storage silo are routed back to the drum dryer. This is used for emissions modeling purposes.

16. State the date of the most recent NSPS Subpart I required source test (if applicable). If performed out of the state of Idaho include the results of the source test with the application submittal. Note: This date will be used to establish future source testing requirements.

17. Specify the fuel (or fuels) that will be combusted in the drum dryer. If distillate fuel oil or used oil/RFO4 is combusted, check the maximum proposed sulfur content or list the proposed sulfur content of the fuel.

18. Check whether the drum dryer has a control device installed, and if so, if it is a baghouse or a scrubber. Note: If a baghouse will be installed, also complete Form BCE. If a scrubber will be installed, also complete Form SCE.

19. Provide the drum dryer exhaust stack parameters. The temperature and flow rate should be per the drum dryer manufacturer.
**Asphaltic Oil Tank Heater Specifications:**

20-22. Provide the asphaltic oil tank heater manufacturer, model, and the heat input capacity of the asphaltic oil tank heater (per the data plate) in MMBtu/hr.

23. State whether worst-case daily operation of the asphaltic oil tank heater exceeds 8 hrs/day or 2,000 hrs/yr. If typical operation is less than these worst-case maximums, skip to question 27. Otherwise, answer questions 24 and 25.

24. Propose a worst-case maximum daily asphaltic oil tank heater hourly limit. **Note:** This proposed hourly limit will be placed in the permit.

25. Propose a worst-case maximum annual asphaltic oil tank heater hourly limit. **Note:** This proposed hourly limit will be placed in the permit.

26. Check which fuel is combusted in the asphaltic oil tank heater. If distillate fuel oil is combusted, check the maximum proposed sulfur content of the fuel.

27. Provide the asphaltic oil tank heater exhaust stack parameters. The temperature and flow rate should be per the asphaltic oil tank heater manufacturer.

**Primary IC Engine Specifications:**

Note: Complete this section only if IC engines are used to generate electricity for the facility.

28-31. Provide the primary IC engine manufacturer, model, date the primary IC engine was manufactured, and the model year (used for EPA certification purposes) of the primary IC engine.

32. Provide the maximum horsepower of the primary IC engine (per the data plate) in bhp.

33. Provide the EPA certification number of the primary IC engine (i.e. 1, 2, 3, or 4).

34. Propose a maximum daily primary IC engine hourly limit. **Note:** This proposed hourly limit will be placed in the permit.

35. Propose a maximum annual primary IC engine hourly limit. **Note:** This proposed hourly limit will be placed in the permit.

36. Check which fuel is combusted in the primary IC engine. If distillate fuel oil is combusted, check the maximum proposed sulfur content of the fuel.

37. Provide the asphaltic oil tank heater exhaust stack parameters. The temperature and flow rate should be per the primary IC engine manufacturer.

Questions 38 through 40 apply to non-Tier certified IC engines rated at > 300 bhp and Tier certified IC engines rated at > 300 bhp and manufactured prior to July 11, 2005. If you are proposing a 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 38 through 40.

38. Subpart ZZZZ requires that CO emissions in the exhaust from existing non-Tier certified IC engines are either limited to a specific concentration, 49 ppmvd for engines rated at 300 bhp to ≤ 500 bhp or 23 ppmvd for engines rated at > 500 bhp, or are to reduce the CO concentration by 70% or more. Therefore, only one of the answers should be selected.

39. Subpart ZZZZ requires that, for IC engines rated at > 500 bhp, Applicants either install a CEMS (Continuous Emissions Monitoring System) or a CPMS (Continuous Parameters Monitoring System) in the exhaust stream to demonstrate compliance with the emissions limitations. Therefore, only one of the answers should be selected.

40. Specify if the IC engine is equipped, or will need to be equipped, with an oxidation catalyst to comply with the emissions limitations of Subpart ZZZZ.
Secondary IC Engine Specifications:

Note: Complete this section only if IC engines are used to generate electricity for the facility.

41-44. Provide the secondary IC engine manufacturer, model, date the secondary IC engine was manufactured, and the model year (used for EPA certification purposes) of the primary IC engine.

45. Provide the maximum horsepower of the secondary IC engine (per the data plate) in bhp.

46. Provide the EPA certification number of the secondary IC engine (i.e. 1, 2, 3, or 4).

47. Propose a maximum daily secondary IC engine hourly limit. Note: This proposed hourly limit will be placed in the permit.

48. Propose a maximum annual secondary IC engine hourly limit. Note: This proposed hourly limit will be placed in the permit.

49. Check which fuel is combusted in the secondary IC engine. If distillate fuel oil is combusted, check the maximum proposed sulfur content of the fuel.

50. Provide the secondary IC engine exhaust stack parameters. The temperature and flow rate should be per the secondary IC engine manufacturer.

Questions 51 through 53 apply to non-Tier certified IC engines rated at > 300 bhp and Tier certified IC engines rated at > 300 bhp and manufactured prior to July 11, 2005. If you are proposing a 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 53.

51. Subpart ZZZZ requires that CO emissions in the exhaust from existing non-Tier certified IC engines are either limited to a specific concentration, 49 ppmvd for engines rated at 300 bhp to ≤ 500 bhp or 23 ppmvd for engines rated at > 500 bhp, or are to reduce the CO concentration by 70% or more. Therefore, only one of the answers should be selected.

52. Subpart ZZZZ requires that, for IC engines rated at > 500 bhp, Applicants either install a CEMS (Continuous Emissions Monitoring System) or a CPMS (Continuous Parameters Monitoring System) in the exhaust stream to demonstrate compliance with the emissions limitations. Therefore, only one of the answers should be selected.

53. Specify if the IC engine is equipped, or will need to be equipped, with an oxidation catalyst to comply with the emissions limitations of Subpart ZZZZ.