

AUTHORIZATION TO OPERATE (ATO)

**UNDER PDEQ CLASS II/III GENERAL AIR QUALITY PERMIT 6205
For
FUEL BURNING EQUIPMENT (BOILERS, HEATERS, & GENERATORS)**



I. FACILITY INFORMATION:

Business Name: Bayer Research and Development Services, LLC.
 Facility Name: Bayer Research and Development Services, LLC
 Source Location: 9475 N Sanders Rd, Marana, AZ 85743

Permitted Emissions Limits:

| Conventional or Criteria Air Pollutant (tons/year) | | | | | | | | HAP(s) (tons/year) |
|--|------------------|------|-----------------|------|------|-----------------|-------|--------------------|
| PM _{2.5} | PM ₁₀ | PM | NO _x | VOC | CO | SO ₂ | Lead | Total |
| < 90 | < 90 | < 90 | < 90 | < 90 | < 90 | < 90 | < 0.6 | < 10 |

II. AUTHORIZED EQUIPMENT:

Equipment, operations, and activities for which emissions are allowed by the general permit are as follows:

Section 3 of the Permit – Fossil Fuel Fired Industrial and Commercial Equipment

| Equip.No. | Description/ Location | MFR/ Model | Serial Number/ Unique ID | Maximum Rated Capacity | Date of MFR | Date Installed | Allowable Fuels and Annual Limits | Applicability ¹ | |
|-----------|--------------------------|-----------------------|-----------------------------|------------------------------|-------------------|----------------|--------------------------------------|----------------------------|----------------------------|
| | | | | | | | PROPANE (MMcf, hours, CF) | NSPS Subpart Dc | NESHAP Subpart JJJJJ |
| | | | | | | | | | |
| 6206-05 | Boiler | AERCO/BMK 6000 | N-17-0855/BLR 2 | 6.0 MMBtu/hr | 2017 | 2017 | Unlimited | N/A | N/A |
| 6206-06 | Boiler | AERCO/BMK 6000 | N-17-0854/BLR 3 | 6.0 MMBtu/hr | 2017 | 2017 | Unlimited | N/A | N/A |
| 6206-07 | Boiler | AERCO/BMK 6000 | N-17-0857/BLR 4 | 6.0 MMBtu/hr | 2017 | 2017 | Unlimited | N/A | N/A |
| 6206-08 | Boiler | AERCO/BMK 6000 | N-17-0856/BLR 5 | 6.0 MMBtu/hr | 2017 | 2017 | Unlimited | N/A | N/A |
| 6206-09 | Corn Dryer | AEC/3000-4PB (FB1457) | 5489-1/DRY 1 | 1.25 MMBtu/hr | 2010 | 2017 | Unlimited | N/A | N/A |
| 6206-10 | Corn Dryer | AEC/3000-4PB (FB1457) | 3648-4/DRY 2 | 1.25 MMBtu/hr | 2017 | 2017 | Unlimited | N/A | N/A |

¹ The Permittee must submit a significant revision to revise the ATO and meet applicable NESHAP subpart JJJJJ work practices (tune-ups), notification, and reporting requirements for applicable boilers that switch to fuel oil use and become subject to Subpart JJJJJ in the oil firing subcategory as defined in 40 CFR 63.11237. The revision will be subject to a 5 day public comment period.

Rupesh Patel, Air Permit Manager, PDEQ

| ATO #6206 | |
|------------------|------------------|
| Issued Date: | October 30, 2020 |
| Effective Date: | October 30, 2020 |
| Expiration Date: | January 4, 2022 |

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Section 4C – NSPS for CI ICE (Emergency Designated Engines):

| Equip. No. | Description/ Location | MFR/ Model | Serial Number/ Unique ID | Maximum Rated Capacity | Date of MFR | Date Installed | Run Hour Limitation ¹ | Allowable Fuels |
|------------|-----------------------|--------------------|--------------------------|------------------------|-------------|----------------|----------------------------------|-----------------|
| 6206-001 | Generator | Cummins/DQGAB | X17F263703/GEN-1 | 1500 KW | 2017 | 2018 | 100 | Diesel |
| 6206-002 | Fire Pump | Clarke/JX6H-UFADF0 | 859334/FWP-1 | 460 HP | 2018 | 2018 | 100 | Diesel |
| 6206-003 | Fire Pump | Clarke/JX6H-UFADF0 | 859335/FWP-2 | 460 HP | 2018 | 2018 | 100 | Diesel |

¹. The run hours are limited to maintenance testing and readiness checks and non-emergency operation in accordance with the federal requirements. There is no limit on hours of operation during true emergencies.

Section 4C – Supplemental Requirements:

| Equip. No. | Applicable NSPS Emission Standard | NO _x g/hp-hr | NMHC g/hp-hr | NMHC+NO _x g/hp-hr | CO g/hp-hr | PM g/hp-hr | Certified Emission Life (term, date) |
|------------|---|-------------------------|--------------|------------------------------|------------|------------|---|
| 6206-001 | Model Year 2007 and Later Emergency | - | - | 4.8 | 2.6 | 0.15 | 8,000 hours or 10 years, whichever comes first. |
| 6206-002 | Model Year 2009 and Later Fire Pump Engines | - | - | 3.0 | 2.6 | 0.15 | 8,000 hours or 10 years, whichever comes first. |
| 6206-003 | Model Year 2009 and Later Fire Pump Engines | - | - | 3.0 | 2.6 | 0.15 | 8,000 hours or 10 years, whichever comes first. |

Rupesh Patel, Air Permit Manager, PDEQ

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