



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

MAY - 3 2012

Greg Youngblood
E&B Natural Resources
34740 Merced Avenue
Bakersfield, CA 93308

RE: Notice of Final Action - Authority to Construct
Project Number: S-1120528

Dear Mr. Youngblood:

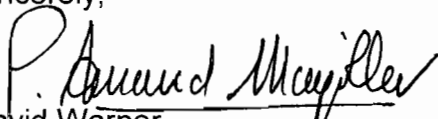
The Air Pollution Control Officer has issued Authority to Construct permits to E&B Natural Resources for increasing flare S-1624-218's daily and annual throughput, at E&B's heavy oil production stationary source in Section 5, Township 28 S, Range 27 E, MDBE.

Enclosed are copies of the Authority to Construct permits and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue this Authority to Construct was published on March 30, 2012. The District's analysis of the proposal was also sent to CARB on March 27, 2012. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura at (661) 392-5500.

Sincerely,


David Warner
Director of Permit Services

DW: DBT/cm

Enclosures

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061
www.valleyair.org

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (661) 392-5500 FAX: (661) 392-5585



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

MAY - 3 2012

Mike Tollstrup, Chief
Project Assessment Branch
Stationary Source Division
California Air Resources Board
PO Box 2815
Sacramento, CA 95812-2815

RE: Notice of Final Action - Authority to Construct
Project Number: S-1120528

Dear Mr. Tollstrup:

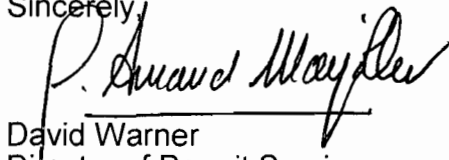
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Enclosed are copies of the Authority to Construct permits and a copy of the notice of final action to be published approximately three days from the date of this letter.

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for
David Warner
Director of Permit Services

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**NOTICE OF FINAL ACTION
FOR THE ISSUANCE OF AUTHORITY
TO CONSTRUCT PERMITS**

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Authority to Construct permits to E&B Natural Resources for increasing flare S-1624-218's daily and annual throughput, at E&B's heavy oil production stationary source in Section 5, Township 28 S, Range 27 E, MDBE.

No comments were received following the District's preliminary decision on this project.

The application review for Project #S-1120528 is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the **SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308.**



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1624-25-3

ISSUANCE DATE: 05/02/2012

LEGAL OWNER OR OPERATOR: E&B NATURAL RESOURCES MGMT
MAILING ADDRESS: ATTN: GREG YOUNGBLOOD
1600 NORRIS ROAD
BAKERSFIELD, CA 93308

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: 32 TOWNSHIP: 27S RANGE: 27E

EQUIPMENT DESCRIPTION:

MODIFICATION OF NON-COMPLIANT DORMANT 23.0 MMBTU/HR STRUTHERS GAS-FIRED STEAM GENERATOR #2
W/OXYGEN CONTROLLER/ANALYZER: DIS# 27544-66 (MIDWAY PREMIER): LOWER NOX TO 9 PPM

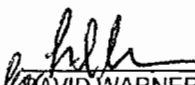
CONDITIONS

1. Operation of the unit is not authorized until modifications are made to comply with District Rules as authorized by an Authority to Construct. [District Rule 2010]
2. The fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. While dormant, normal source testing shall not be required. [District Rule 2080]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
7. This unit shall be fired on natural gas only. [District Rule 2201]
8. Natural gas combusted in steam generator shall not exceed 128,947 MMBtu per year. [District NSR Rule]
9. Total sulfur content of natural gas combusted shall not exceed 0.75 grain/100 scf. [District NSR Rule]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

S-1624-25-3 : May 2 2012 8:33AM - TORID : Joint Inspection NOT Required

10. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 3% O₂ (equivalent to 0.011 lb-NO_x/MMBtu), 0.004 lb-SO_x/MMBtu, 0.010 lb-PM₁₀/MMBtu, 0.001 lb-CO/MMBtu, or 0.005 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306 and 4320]
11. Upon recommencing operation, compliance source testing for NO_x, CO and fuel gas sulfur content shall be conducted annually (or as approved by the District) within 60 days prior to the permit anniversary. [District Rule 1070]
12. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081]
13. Official test results and field data of compliance tests shall be submitted to the District within 60 days after collection. [District Rule 1081]
14. Records of the monthly amount of fuel used and fuel gas sulfur content shall be maintained. [District Rule 2201]
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305 and 4306]



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1624-26-3

ISSUANCE DATE: 05/02/2012

LEGAL OWNER OR OPERATOR: E&B NATURAL RESOURCES MGMT
MAILING ADDRESS: ATTN: GREG YOUNGBLOOD
1600 NORRIS ROAD
BAKERSFIELD, CA 93308

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: 32 **TOWNSHIP:** 27S **RANGE:** 27E

EQUIPMENT DESCRIPTION:

MODIFICATION OF NON-COMPLAINT DORMANT 30.0 MMBTU/HR STRUTHERS GAS-FIRED STEAM GENERATOR #1 W/OXYGEN CONTROLLER/ANALYZER - DIS# 39095-86 (MIDWAY PREMIER): LOWER NOX TO 9 PPM

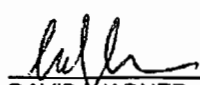
CONDITIONS

1. Operation of the unit is not authorized until modifications are made to comply with District Rules as authorized by an Authority to Construct. [District Rule 2010]
2. The fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. While dormant, normal source testing shall not be required. [District Rule 2080]
4. This unit shall be fired on natural gas only. [District Rule 2201]
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
6. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
8. Natural gas combusted in steam generator shall not exceed 168,192 MMBtu per year. [District NSR Rule]
9. Total sulfur content of natural gas combusted shall not exceed 1.0 grain/100 scf. [District Rules 2201 and 4801]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO


DAVID WARNER, Director of Permit Services

S-1624-26-3 : May 2 2012 8:33AM - TORID : Joint Inspection NOT Required

10. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 3% O₂ (equivalent to 0.011 lb-NO_x/MMBtu), 0.004 lb-SO_x/MMBtu, 0.010 lb-PM₁₀/MMBtu, 0.001 lb-CO/MMBtu, or 0.005 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306 and 4320]
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12. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081]
13. Official test results and field data of compliance tests shall be submitted to the District within 60 days after collection. [District Rule 1081]
14. Records of the monthly amount of fuel used and fuel gas sulfur content shall be maintained. [District Rule 2201]
15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4305 and 4306]



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1624-72-3

ISSUANCE DATE: 05/02/2012

LEGAL OWNER OR OPERATOR: E&B NATURAL RESOURCES MGMT
MAILING ADDRESS: ATTN: GREG YOUNGBLOOD
1600 NORRIS ROAD
BAKERSFIELD, CA 93308

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: NE21 **TOWNSHIP:** 25S **RANGE:** 27E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 1,000 BBL FIXED ROOF CRUDE OIL STORAGE TANK, BLACKHAWK LEASE: CONNECT TO VAPOR RECOVERY SYSTEM LISTED ON S-1624-178

CONDITIONS

1. To maintain status as a small producer, permittee's crude oil production shall average less than 6000 bbl/day from all operations within Kern County and permittee shall not engage in refining, transporting, or marketing of refined petroleum products. [District Rules 3020 & 4623]
2. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rules 2201 and 4623]
3. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rules 2201 and 4623]
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rules 2201 and 4623]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

S-1624-72-3 : May 2 2012 8:33AM - TORID : Joint Inspection NOT Required

5. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623]
6. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
7. Except as otherwise provided in this permit, any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
8. Fugitive VOC emissions rate shall be calculated using CAPCOA California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c, Oil and Gas Production Screening Value Ranges Emission Factors (Feb 1999), from the total number of components from this tank. [District Rule 2201]
9. VOC fugitive emissions from the components in gas service on the tank shall not exceed 0.2 lb/day. [District Rule 2201]
10. The permittee shall maintain records of number and type of components installed and calculated fugitive emissions. Permittee shall update such records when new components are installed. [District Rule 2201]
11. Permittee shall record and maintain monthly records of average daily crude oil throughput and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 4623]
12. ATC shall be implemented concurrently with or subsequent to ATC S-1624-178-2. [District Rule 2201]



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1624-178-2

ISSUANCE DATE: 05/02/2012

LEGAL OWNER OR OPERATOR: E&B NATURAL RESOURCES MGMT
MAILING ADDRESS: ATTN: GREG YOUNGBLOOD
1600 NORRIS ROAD
BAKERSFIELD, CA 93308

LOCATION: HEAVY OIL CENTRAL
CA

EQUIPMENT DESCRIPTION:
MODIFICATION OF 5,000 BBL FIXED ROOF CRUDE OIL WASH TANK WITH VAPOR RECOVERY SYSTEM
(BLACKHAWK LEASE): CONNECT TANK S-1624-72 TO THE VAPOR RECOVERY SYSTEM

CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rules 2201 and 4623]
3. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623]
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rules 2201 and 4623]
5. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. [District Rule 4623]
6. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

S-1624-178-2; May 2 2012 6:33AM - TORID : Joint Inspection NOT Required

7. Except as otherwise provided in this permit, any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
8. Fugitive VOC emissions rate shall be calculated using CAPCOA California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities Table IV-2c, Oil and Gas Production Screening Value Ranges Emission Factors (Feb 1999), from the total number of components from this tank. [District Rule 2201]
9. VOC fugitive emissions from the vapor service components associated with tank and tank vapor control system shall not exceed 0.5 lb/day. [District Rule 2201]
10. The permittee shall maintain records of number and type of components installed and calculated fugitive emissions. Permittee shall update such records when new components are installed. [District Rule 2201]
11. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]
12. This ATC shall be implemented concurrently with or subsequent to ATC S-1624-178-1. [District Rule 2201]



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1624-218-1

ISSUANCE DATE: 05/02/2012

LEGAL OWNER OR OPERATOR: E&B NATURAL RESOURCES MGMT
MAILING ADDRESS: ATTN: GREG YOUNGBLOOD
1600 NORRIS ROAD
BAKERSFIELD, CA 93308

LOCATION: HEAVY OIL CENTRAL
CA

SECTION: SW5 **TOWNSHIP:** 28S **RANGE:** 27E

EQUIPMENT DESCRIPTION:

MODIFICATION OF JOHN ZINK 660 MMBTU/DAY AIR ASSIST FLARE WITH MODEL EEF-FA-8 FLARE TIP SERVING TANK VAPOR RECOVERY SYSTEM AND TEOR SYSTEM (BLACKWELL LEASE): INCREASE THROUGHPUT LIMIT TO 660 MMBTU/DAY AND 118,800 MMBTU/YEAR

CONDITIONS

1. Unit 218-1 shall not operate within 1,000 ft. of a business or residential receptor. [District Rule 4102]
2. Assist air blower shall be capable of providing at least 20% of stoichiometric combustion air requirement. [District Rule 2080]
3. Flare air-assist blower shall be maintained and operated for smokeless combustion, i.e. no visible emissions in excess of 5% opacity or 1/4 Ringelmann except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [District Rules 2201 and 4311]
4. Flare shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [District Rule 2201]
5. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2201]
6. Flare shall use purge gas for purging. [District Rule 4311]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO



DAVID WARNER, Director of Permit Services

S-1624-218-1: May 2 2012 8:33AM - TORID : Joint Inspection NOT Required

7. Flare shall be equipped with recording, volumetric flow meters that shall be used to individually monitor and record the volumes of produced gas and pilot gas combusted in this unit. [District Rule 2201]
8. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare. The pilot need not be present when the flare is isolated for required flare maintenance. [District Rule 4311, 5.3]
9. Flare shall be equipped with an automatic flow sensing device capable of continuously detecting at least one pilot flame or the flare flame is present. The flame detection device shall be kept operational at all times except during flare maintenance and unforeseen or necessary planned power outages. [District Rule 4311]
10. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311, 5.6] Federally Enforceable Through Title V Permit
11. The sulfur content of gas combusted in the flare shall not exceed 1 gr/100 scf. [District Rule 2201]
12. Maximum amount of gas combusted shall not exceed 660 MMBtu/day nor 118,800 MMBtu/yr. [District Rule 2201]
13. Emissions from the flare shall not exceed any of the following limits (based on total gas combusted): NO_x (as NO₂): 0.068 lb/MMBtu; PM₁₀: 0.008 lb/MMBtu; CO: 0.37 lb/MMBtu; or VOC: 0.063 lb/MMBtu. [District Rule 2201]
14. Measured heating value and quantity of gas flared shall be used to determine compliance with heat input limits. [District Rule 2201]
15. Permittee shall submit and have approved by the APCO a flare minimization plan prior to operating the flare authorized by this permit.. [District Rule 4311]
16. Permittee shall keep a copy of flare minimization plan on site for District inspection upon request. [District Rule 4311 and 40 CFR 60.18]
17. Flaring shall be consistent with the operator's approved flare minimization plan (FMP), pursuant to Section 6.5 of Rule 4311, and all commitments listed in that plan have been met. This standard shall not apply if the APCO determines that the flaring is caused by an emergency as defined by Section 3.7 of Rule 4311 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere. [District Rule 4311]
18. The operator of a flare subject to flare minimization requirements pursuant to Section 5.8 shall monitor the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. The operator shall maintain records pursuant to Section 6.1.7 of Rule 4311. Flares that the operator can verify, based on permit conditions, are not capable of producing reportable flare events pursuant to Section 6.2.2 of Rule 4311 shall not be required to monitor vent gas flow to the flare. [District Rule 4311]
19. To show compliance with sulfur emission limits (ppmv as H₂S), the gas being flared shall be tested weekly for sulfur content. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks for the flared gas, then the compliance testing frequency shall be semi-annually. If the semi-annual sulfur content test fails to show compliance, weekly testing shall resume. [District Rule 2201]
20. The sulfur content of the gas being flared shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rules 1070 and 2201]
21. Permittee shall maintain accurate records of flared gas higher heating value, daily and annual quantities of produced gas, pilot gas, and sweep gas combusted in the flare, and flared gas concentration of H₂S. [District Rules 1070 and 2201]
22. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]
23. This ATC shall be implemented concurrently with or subsequent to ATCs S-1624-25-3, '26-3 and '72-3. [District Rule 2201]