

FACILITY PERMIT TO OPERATE ORANGE COUNTY SANITATION DISTRICT

PERMIT TO CONSTRUCT

A/N 504150
Granted as of

Equipment Description:

MODIFICATION OF THE EXISTING ODOR CONTROL SYSTEM, F94280, CONSISTING OF;

1. FOUL AIR DUCTING FROM WET WELL AND ASSOCIATED TRUNK LINES (ELLIS PUMP STATION, OCSD PLANT NO. 1).
2. TWO BLOWERS, IN PARALLEL, EACH 7500 SCFM FLOW RATE
3. TWO ADSORBERS, IN PARALLEL, CONTAINING US FILTER/WESTATES MIDAS OCM OR CALGON CARBON MINOTAUR, EACH WITH A MINIMUM OF 8000 LBS OF HIGH H₂S CAPACITY ACTIVATED CARBON.
4. TWO EXHAUST STACKS, EACH 2' - 6" DIA. X 6.5' H. WITH RAIN CAP.

BY REPLACEMENT WITH NEW ADSORBENT MEDIA BLEND, EXHAUST STACK, AND REMOVAL OF A RAIN CAP, AS FOLLOWS,

1. FOUL AIR DUCTING FROM WET WELL AND ASSOCIATED TRUNK LINES (STEVE ANDERSON LIFT STATION, OCSD PLANT NO. 1).
2. TWO BLOWERS, IN PARALLEL, EACH 7500 SCFM FLOW RATE
3. TWO ADSORBERS, IN PARALLEL, CONTAINING PUREAIR FILTRATION OR EQUAL ADSORBENT MEDIA, A BLEND OF POTASSIUM PERMANGANATE BASED AND GRANULAR ACTIVATED CARBON MEDIA, EACH ADSORBER WITH A MINIMUM OF 382 CUBIC FEET OF HIGH H₂S CAPACITY MEDIA BLEND.
4. HYDROGEN SULFIDE CONTINUOUS EMISSION MONITORING AND INTEGRATED SAMPLING SYSTEM.
5. TWO EXHAUST STACKS, EACH 2' - 0" DIA. X 25' - 6"H.

PERMIT CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATIONS UNDER WHICH THIS PERMIT IS ISSUED.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]

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3. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT IS NOT COMPLETED WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]
4. IDENTIFICATION TAG (S) OR NAMEPLATE (S) SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG (S) OR PLATE (S) SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE AFFIXED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.
[RULE 204]
5. A FLOW METER SHALL BE INSTALLED AND MAINTAINED AT THE INLET STREAM TO EACH CARBON ADSORBER TO INDICATE THE FOUL AIR TREATED, IN CUBIC FEET PER MINUTE (CFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW METER, A CONVERSION CHART SHALL BE MAINTAINED TO INDICATE THE CORRESPONDING FLOW RATE, IN CFM, TO THE PRESSURE READING.
[RULE 204]
6. MAXIMUM FOUL AIR FLOW TO BE TREATED BY EACH OF THE CARBON ADSORBER SHALL NOT EXCEED 7500 CFM.
[RULE 402]
7. FOR EACH CARBON ADSORBER, TOTAL ORGANIC COMPOUNDS (TOCs) CONCENTRATION (PPMV) SHALL BE MONITORED AT EACH EXHAUST STACK, AT LEAST ONCE EVERY 7 DAYS OF OPERATION, FOR THE FIRST SIX-MONTH AND THEN ON A MONTHLY BASIS, USING A PHOTO IONIZATION DETECTOR OR AN ORGANIC VAPOR ANALYZER. RECORDS SHALL BE MAINTAINED AND KEPT ON FILE.
[RULE 204]
8. THE TOC CONCENTRATION MEASURED AT THE EXHAUST FROM EACH CARBON ADSORBER SHALL NOT EXCEED 2.2 PPMV, AS CARBON.
[RULE 204]
9. WHEN IN OPERATION, H₂S CONCENTRATION (PPMV) IN EACH EXHAUST STACK SHALL BE MONITORED AND RECORDED USING A HYDROGEN SULFIDE CONTINUOUS EMISSION MONITORING AND INTEGRATED SAMPLING SYSTEM (CEMS). WHEN THE H₂S MONITORING SYSTEM IS SHUTDOWN FOR REPAIR OR MAINTENANCE, PORTABLE DEVICES SUCH AS JEROME OR COLORIMETRIC TUBES SHALL BE USED TO MEASURE AND RECORD OUTLET H₂S AT LEAST ONCE PER SHIFT.
10. THE HYDROGEN SULFIDE (H₂S) CONCENTRATION MEASURED AT EACH EXHAUST STACK, USING CEMS SHALL NOT EXCEED 2.45PPMV, AVERAGED OVER ONE HOUR
[RULE 402, 1401]
11. IF THE HYDROGEN SULFIDE (H₂S) CONCENTRATION MEASURED AT THE EXHAUST STACK IS DETECTED ABOVE 2.2 PPMV, THEN IMMEDIATE CORRECTIVE MEASURES SHALL BE TAKEN INCLUDING ACTIVATED CARBON REPLACEMENT, WITH FRESH CARBON, BEFORE RESUMING OPERATION.
[RULE 402, 1401]

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12. SPENT CARBON REMOVED FROM THIS SYSTEM SHALL BE MAINTAINED OR STORED IN CLOSED CONTAINERS PRIOR TO REMOVAL FROM SITE.
[RULE 204]

13. IF THE OPERATION OF THIS EQUIPMENT RESULTS IN CONSIDERABLE NUMBER OF ODOR COMPLAINTS, THE WORK SHALL CEASE AND MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL EMISSIONS CAUSING THE COMPLAINTS IS MITIGATED.
[RULE 402]

14. RECORDS SHALL BE MAINTAINED AS REQUIRED BY THIS PERMIT INCLUDING CARBON CHANGE OVER DATE(S) FOR COMPLIANCE. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204]