

FACILITY PERMIT TO OPERATE LONG BEACH CITY, SERRF PROJECT

PERMIT TO OPERATE

Permit No. TBD
A/N 556341

Equipment Description:

BOTTOM ASH HANDLING, TREATMENT AND STORAGE SYSTEM CONSISTING OF:

1. TWO BOTTOM ASH RESIDUE CONVEYORS, VIBRATORY TYPE, BOTH SERVING ALL THREE COMBUSTOR/BOILERS OF THE RESOURCE RECOVERY SYSTEMS # 1, 2 AND 3.
2. THREE ASH QUENCH TANKS, WITH RAM EXTRACTORS, EACH SERVING ONE COMBUSTOR/BOILER OF THE RESOURCE RECOVERY SYSTEMS # 1, 2 AND 3.
3. TWO BOTTOM ASH BELT CONVEYORS.
4. SIX DRAG CHAIN UNDERGRATE SIFTING CONVEYORS, SERVING THE THREE COMBUSTOR/BOILERS AND DISCHARGING INTO THE THREE ASH QUENCH TANKS WITH RAM EXTRACTORS IDENTIFIED IN #2 ABOVE.
5. SIX COMBUSTOR/BOILER 4TH PASS SCREW CONVEYORS, SERVING THE THREE COMBUSTOR/BOILERS AND DISCHARGING INTO THE THREE ASH QUENCH TANKS WITH RAM EXTRACTORS IDENTIFIED IN #2 ABOVE.
6. ASH/RESIDUE STORAGE BUILDING, 76' L. X 104' W. X 22' H., ENCLOSED, WITH TRUCK ACCESS DOORS, EACH 18' W. X 18' H.
7. PHOSPHORIC ACID STORAGE TANK, 10,000 GALLON CAPACITY, COMMON TO THE FLYASH TREATMENT SYSTEM.
8. HOOD VENTILATION SYSTEM VENTING THE PHOSPHATE TREATMENT AREA TO THE EXISTING COMBUSTOR/BOILERS.
9. BUCKET ELEVATOR, CEMENT TRANSPORT, BOTTOM ASH VIBRATING GRIZZLY SCREEN DISCHARGE.
10. BOTTOM ASH GRIZZLY SCREEN, VIBRATORY TYPE (BOTTOM ASH BELT CONVEYOR DISCHARGE UNDERS), 6'- 0" WIDE, TWO INCH SCREENING.
11. TWO BOTTOM ASH CONVEYORS, VIBRATORY TYPE, GRIZZLY SCREEN DISCHARGE.
12. OPTIONAL PORTABLE TROMMEL SCREEN, FOR METAL RECOVERY, WITH IN-FEED CONVEYOR, AND FINES COLLECTION AND DISCHARGE CONVEYORS.
13. SIX SCREW CONVEYORS, CEMENT TRANSPORT (FROM AN EXISTING CEMENT BIN TO A LOCATION BELOW THE BOTTOM ASH SCREEN.

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14. PNEUMATIC CONVEYOR, CEMENT TRANSPORT (FROM AN EXISTING CEMENT BIN TO A LOCATION BELOW THE BOTTOM ASH SCREEN).

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204; 40CFR 60 Subpart Cb]
4. ALL STORED BOTTOM ASH SHALL BE CONTAINED WITHIN THE ASH STORAGE BUILDING, OR IN THE WASTE RECEIVING AND STORAGE BUILDING, BOTH OF WHICH ARE VENTED TO PERMITTED AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE.
[RULE 402]
5. THE TRUCK ACCESS DOORS OF THE ASH STORAGE BUILDING SHALL REMAIN CLOSED EXCEPT WHEN ASH IS BEING RECEIVED OR TRANSFERRED, OR DURING SHORT DURATIONS TO ALLOW FOR VEHICLE TRANSFER.
[RULE 402]
6. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE BUILDING VENTILATION (WITH FILTERS) SYSTEM IS IN FULL OPERATION.
[RULE 402]
7. THE CEMENT AND PHOSPHATE TREATMENT SHALL NOT BE ADDED TO THE BOTTOM ASH STORAGE PILE UNLESS THE HOOD VENTILATION SYSTEM IS IN FULL OPERATION.
[RULE 402]
8. ALL BOTTOM ASH AND RESIDUE FROM THE GRATES, BOILER HOPPERS AND SIFTINGS FROM UNDER THE GRATES SHALL BE DISCHARGED ONLY INTO THE ASH QUENCH TANK EXCEPT DURING BOILER CLEANING.
[RULE 402]
9. THE BOTTOM ASH FROM THE COMBUSTOR/BOILER SHALL BE SATURATED WITH WATER PRIOR TO LEAVING THE QUENCH TANKS TO PREVENT FUGITIVE DUST EMISSIONS.
[RULE 402]
10. THE BOTTOM ASH AND RESIDUE IN THE STORAGE BUILDING SHALL REMAIN SUFFICIENTLY MOIST TO PREVENT FUGITIVE DUST EMISSIONS DURING TREATMENT, STORAGE, AND HANDLING OPERATIONS.
[RULE 402]

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11. ASH AND RESIDUE TRANSPORTED FROM THE ASH AND RESIDUE STORAGE BUILDING SHALL BE TRANSPORTED ONLY IN TRUCK BEDS OR TRAILERS THAT ARE SECURELY COVERED.
[RULE 402]
12. THE EXTERIOR OF TRUCKS (INCLUDING THE TIRES) WHICH ARE USED TO HAUL THE ASH AND RESIDUE SHALL BE CLEANED PRIOR TO LEAVING THE STORAGE BUILDING.
[RULE 402]

Periodic Monitoring:

13. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A SEMI-ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE SEMI-ANNUAL PERIOD. THE ROUTINE SEMI-ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
 - A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT;
OR
 - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO SCAQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]
14. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE SCAQMD, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
MONTHLY ASH THROUGHPUT.
[RULE 3004 (a)(4)]

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Emissions and Requirements:

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS