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Applicant

Long Beach City, SERRF Project
120 Henry Ford Ave.
Long Beach, CA 90802

Equipment Location

120 Henry Ford Ave.
Long Beach, CA 90802

Equipment Description

A/N 497359 (Previous A/N 274832)

MODIFICATION TO AIR POLLUTION CONTROL SYSTEM NO. 1 CONSISTING OF:

1. ROTARY ATOMIZER NO. 1 WITH CYCLONE INLETS VENTING COMBUSTOR/BOILER NO. 1.
2. SPRAY REACTOR TYPE REACTORS WITH CALCIUM HYDROXIDE INJECTION, EACH SERVING ROTARY ATOMIZER NO. 1.
3. BAGHOUSE NO. 1, WITH TEN COMPARTMENTS, REVERSE AIR CLEANING, 73,416 SQ. FT. OF FILTER AREA.
4. INDUCED DRAFT FAN NO. 1 VENTING RESOURCE RECOVERY SYSTEM NO. 1.

BY THE ADDITIONAL INJECTION OF POWDER ACTIVATED CARBON (COMMON TO APC SYSTEM NO. 1, 2 AND 3)

A/N 497360 (Previous A/N 274833)

MODIFICATION TO AIR POLLUTION CONTROL SYSTEM NO. 2 CONSISTING OF:

1. ROTARY ATOMIZER NO. 2 WITH CYCLONE INLETS VENTING COMBUSTOR/BOILER NO. 2.
2. SPRAY REACTOR TYPE REACTORS WITH CALCIUM HYDROXIDE INJECTION, EACH SERVING ROTARY ATOMIZER NO. 2.
3. BAGHOUSE NO. 2, WITH TEN COMPARTMENTS, REVERSE AIR CLEANING, 73,416 SQ. FT. OF FILTER AREA.
4. INDUCED DRAFT FAN NO. 2 VENTING RESOURCE RECOVERY SYSTEM NO. 2.

BY THE ADDITIONAL INJECTION OF POWDER ACTIVATED CARBON (COMMON TO APC SYSTEM NO. 1, 2 AND 3)

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A/N 497361 (Previous A/N 274834)

MODIFICATION TO AIR POLLUTION CONTROL SYSTEM NO. 3 CONSISTING OF:

1. ROTARY ATOMIZER NO. 3 WITH CYCLONE INLETS VENTING COMBUSTOR/BOILER NO. 3.
2. SPRAY REACTOR TYPE REACTORS WITH CALCIUM HYDROXIDE INJECTION, EACH SERVING ROTARY ATOMIZER NO. 3.
3. BAGHOUSE NO. 3, WITH TEN COMPARTMENTS, REVERSE AIR CLEANING, 73,416 SQ. FT. OF FILTER AREA.
4. INDUCED DRAFT FAN NO. 3 VENTING RESOURCE RECOVERY SYSTEM NO. 3.

BY THE ADDITIONAL INJECTION OF POWDER ACTIVATED CARBON (COMMON TO APC SYSTEM NO. 1, 2 AND 3)

A/N 497354

POWDER ACTIVATED CARBON INJECTION SYSTEM, NORIT, (COMMON TO APC SYSTEM NO. 1, 2 AND 3) CONSISTING OF:

1. POWDER ACTIVATED CARBON HOLDING SACK, 1200 LBS MAXIMUM HOLDING CAPACITY
2. FEED HOPPER
3. FEEDER, ROTARY SCREW
4. EDUCTOR
5. FOUR AIR BLOWERS, ONE STANDBY, POWDER ACTIVATED CARBON TRANSPORT

A/N 497362

Title V Minor Permit Revision

History

This equipment is at a Refuse to Energy facility which burns about 1,380 tons per day of municipal refuse and ultimately produces 36 MW of electricity. Excess electricity produced is sold to SCE. These applications were submitted to install a powder activated carbon injection system in the flue gas before the dry scrubber and baghouse of the APC Systems to abate dioxins/furans and mercury emissions from each of the Resource Recovery Systems. This equipment is being installed to meet the latest emission reductions as required by EPA title 40 Part 60 Subpart Cb.

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Process Description

Refuse is transferred by truck to a large receiving pit located inside a building. Overhead bridge cranes are used for mixing, charging and removal of non combustibles. The project consists of three combustor/boiler systems which combust the waste and generate heat which is used in the boilers to generate steam. The steam drives a turbine which in turn drives a genertor to produce electricity. The exhaust from the combustors is vented to an air pollution control system. The air pollution control systems use a spray drier for SOx and acid gas removal and a baghouse for particulate control. Odors and particulate emissions from the receiving area are vented to the combustor/boiler for incineration. NOx emissions are controlled with Thermal De-NOx or Selective Non-Catalytic Reduction (SNCR). The SNCR will reduce the NOx emissions by 20% to 50%.

The dioxins/furans and mercury emissions will be controlled with a powder activated carbon injection system (PAC). The powder activated carbon will be delivered in sacks by truck, mounted on the holding frame and then connected to the feed hopper. When the PAC is needed it will be feed by a rotary screw feeder into an inductor which will blow the PAC into the flue gas before the inlet of the dry scrubber of each air pollution control systems. There is a separate blower for each APC system. The powder activated carbon injection rate will be determined with each annual source test for dioxins/furans and mercury. A 90% reduction in dioxins/furans and mercury can be expected. The dioxins/furans and mercury contaminated ash will be treated as hazardous waste and dispose properly at an appropriate landfill.

Calculations

This system is being installed to “reduce” emissions of dioxins/furans and mercury. The PAC will be injected into the flue gas of the air pollution control system and be collected in the fly ash. Therefore, there is no emission increase from the current permitted levels.

Toxic risk:

There is no emission increase. Therefore, no increase in risk.

Rule Evaluation

- Reg II: CEQA is not required for this modification.
- Rule 212: This is not significant project. There is no school (K thru 12) within 1000 feet, No emission increase and no increase in risk. A public notice is not required.
- Rule 401: Visible emissions are not expected.
- Rule 402: Nuisance is not expected.

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Reg XIII: Not applicable. No emission increase.

Rule 1401: Not applicable. No emission increase.

Reg 3000: This is a TV facility. This is a minor permit revision. Therefore, the proposed permits will be submitted to the EPA for a 45 day review period prior to the issuance of the permit.

Conclusion

Equipment is in compliance with all the applicable Rules and Regulations of the AQMD. A Permit to Construct is recommended.

Conditions (A/N 497359, 497360 and 497361)

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. THE OWNER OR OPERATOR SHALL COMPLY WITH THE MUNICIPAL WASTE COMBUSTOR OPERATING PRACTICE REQUIREMENTS LISTED IN 40 CFR 60.53b (b) AND (c).
[40CFR 60 Subpart Cb]
4. THE OWNER OR OPERATOR SHALL COMPLY WITH THE MUNICIPAL WASTE COMBUSTOR OPERATOR TRAINING AND CERTIFICATION REQUIREMENTS LISTED IN 40 CFR 60.54b (a) THROUGH (g).
[40CFR Subpart Cb]
5. DUST OR FLYASH COLLECTED IN THE BAGHOUSE COMPARTMENT HOPPERS AND THE SPRAY REACTOR HOPPER SHALL BE DISCHARGED ONLY INTO CLOSED CONVEYORS AND/OR CONTAINERS EXCEPT DURING MAINTENANCE AND REPAIR OF ASH CONVEYING SYSTEMS.
[RULE 402; RULE 1303(a)(1)-BACT]
6. A GAUGE SHALL BE MAINTAINED TO INDICATE, IN INCHES OF WATER PRESSURE, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.
[RULE 1303(a)(1)-BACT]

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7. THE VOLUME OF LIME SLURRY SUPPLIED TO THE ATOMIZERS FOR SO₂ CONTROL SHALL BE CONTINUOUSLY MEASURED AND RECORDED.
[RULE 1303(a)(1)-BACT]
8. A CONTINUOUS MONITORING SYSTEM TO MONITOR AND RECORD MASS EMISSIONS AND CONCENTRATIONS OF NITROGEN OXIDES (NO_x), OXIDES OF SULFUR (SO_x) AND CARBON MONOXIDE (CO) IN THE EXHAUST OF THE COMBUSTOR/BOILER STACK, SHALL BE MAINTAINED AND OPERATED IN A MANNER PRESCRIBED IN 40 CFR 60.58b.
[RULE 476; 40CFR 60 Subpart Cb]
9. A CONTINUOUS OXYGEN MONITOR AND RECORDER, AS APPROVED BY THE AQMD, SHALL BE MAINTAINED AND OPERATED IN A MANNER PRESCRIBED IN 40 CFR 60.58b TO MEASURE CONCENTRATIONS OF OXYGEN IN THE EXHAUST OF THE COMBUSTOR/BOILER STACK.
[40CFR 60 Subpart Cb]
10. A SYSTEM, AS APPROVED BY THE AQMD, SHALL BE OPERATED TO CONVERT AND RECORD THE STACK NITROGEN OXIDES CONCENTRATIONS TO 3% OXYGEN ON A DRY BASIS AND REPORT THE RESULTS IN A MANNER WHICH DEMONSTRATES COMPLIANCE WITH RULE 476.
[RULE 476]
11. THE OWNER OR OPERATOR SHALL MAINTAIN AND OPERATE A CONTINUOUS OPACITY MONITOR AND RECORDER IN A MANNER PRESCRIBED IN 40 CFR 60.58b TO MEASURE OPACITY OF FLUE GAS IN THE EXHAUST OF THE COMBUSTOR/BOILER STACK. THE MEASURED OPACITY SHALL NOT EXCEED 10 PERCENT IN 6-MINUTE AVERAGE.
[40CFR 60 Subpart Cb]
12. THE OWNER OR OPERATOR SHALL MAINTAIN AND OPERATE A CONTINUOUS TEMPERATURE MONITOR IN A MANNER PRESCRIBED IN 40 CFR 60.58b TO MONITOR THE TEMPERATURE OF THE FLUE GAS STREAM AT THE INLET TO EACH PARTICULATE MATTER CONTROL DEVICE FOR THE RESOURCE RECOVERY SYSTEM. THE MONITORED TEMPERATURE SHALL NOT EXCEED 17 DEGREES IN CELSIUS (4-HR BLOCK AVERAGE) ABOVE THE MAXIMUM DEMONSTRATED PARTICULATE MATTER CONTROL DEVICE TEMPERATURE AS DEFINED IN 40 CFR 60.51b EXCEPT AS SPECIFIED UNDER 40 CFR 60.53b(c).
[40CFR 60 Subpart Cb]
13. ALL CONTINUOUS EMISSION MONITORS SHALL BE OPERATED IN ACCORDANCE WITH THE REQUIREMENTS AND OPERATING PROCEDURES AS APPROVED BY THE AQMD.
[40CFR 60 Subpart Cb]
14. CONTROLLED EMISSIONS OF OXIDES OF NITROGEN (NO_x) IN THE AIR POLLUTION CONTROL SYSTEM EXHAUST FROM THIS SYSTEM SHALL NOT EXCEED 225 PPM (15 MINUTES AVERAGE) AT 3% OXYGEN ON A DRY BASIS.
[RULE 476; RULE 1303(b)(2)-OFFSET]

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15. CONTROLLED NO_x EMISSIONS IN THE EXHAUST FROM THE SYSTEM SHALL NOT EXCEED 205 PPMV CORRECTED TO 7% OXYGEN ON A DRY BASIS. WHEN AVERAGING EMISSIONS FROM ALL COMBUSTORS AS ALLOWED IN PART 60.33b(d) OF 40 CFR SUBPART Cb, THE AVERAGED NO_x EMISSIONS SHALL NOT EXCEED 180 PPMV CORRECTED TO 7% OXYGEN ON A DRY BASIS (24-HR DAILY ARITHMETIC AVERAGE).
[40CFR 60 Subpart Cb]

16. CONTROLLED EMISSIONS OF OXIDES OF SULFUR (SO_x) FROM THE COMBUSTOR/BOILER SHALL NOT EXCEED THE MORE STRINGENT OF 17 LB/HR OR 70 PPM, DRY CORRECTED TO 12% CO₂ (3 HOUR AVERAGE), AND THE MORE STRINGENT OF 12 LB/HR OR 26 PPM, DRY CORRECTED TO 12 % CO₂ (8 HOUR AVERAGE).
[RULE 1303(b)(2)-OFFSET]

17. CONTROLLED EMISSIONS OF THE FOLLOWING POLLUTANTS IN THE EXHAUST FROM THE SYSTEM SHALL NOT EXCEED THE LIMITS SPECIFIED BELOW. THE FOLLOWING LIMITS ARE CORRECTED TO 7% OXYGEN ON A DRY BASIS UNLESS OTHERWISE INDICATED:

OXIDES OF SULFUR (SOX)	29 PPMV OR 75% WT. REDUCTION (24-HR DAILY GEOMETRIC MEAN)
PARTICULATE MATTERS (PM)	27 mg/DSCM
DIOXIN/FURAN	30 ng/DSCM
CADMIUM	0.04 mg/DSCM
LEAD	0.44 mg/DSCM
MERCURY	0.08 mg/DSCM OR 85% WT. REDUCTION
HYDROGEN CHLORIDE	29 PPMV OR 95% WT. REDUCTION
FLUORIDE (AS HF)	1.1 LBS/HOUR

[40CFR 60 Subpart Cb]

18. CONTROLLED EMISSIONS OF CARBON MONOXIDE (CO) IN THE EXHAUST FROM THE SYSTEM SHALL NOT EXCEED 100 PPMV (4-HR ARITHMETIC AVERAGE) CORRECTED TO 7% OXYGEN ON A DRY BASIS.
[40CFR 60 Subpart Cb]

19. THE CONTROLLED EMISSIONS IN THE EXHAUST FROM THIS SYSTEM SHALL NOT EXCEED THE FOLLOWING LIMITS:

CONTAMINANT	LB/DAY
NITROGEN OXIDES	816
PM10	120
SULFUR OXIDES	288
CARBON MONOXIDE	792
REACTIVE ORGANIC GASSES	72
HYDROGEN CHLORIDE	204

[RULE 1301(b)(2)-OFFSET]

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20. VISIBLE FUGITIVE ASH EMISSIONS FROM AN ASH CONVEYING SYSTEM SHALL NOT EXCEED 5 PERCENT OF THE OBSERVATION PERIOD WHICH IS DEFINED IN 40 CFR 60.58b(k), EXCEPT DURING MAINTENANCE AND REPAIR OF ASH CONVEYING SYSTEMS.
[40CFR 60 Subpart Cb]
21. THE AQMD APPROVED SAMPLING PORTS SHALL BE MAINTAINED IN THE FOLLOWING LOCATIONS:
- A. IN THE DUCT FOLLOWING THE COMBUSTOR/BOILER BUT PRECEDING THE SPRAY REACTOR;
 - B. IN THE DUCT FOLLOWING THE SPRAY REACTOR BUT PRECEDING THE BAGHOUSE;
 - C. IN THE EXHAUST STACK;
 - D. IN THE COMBUSTION AIR INLET DUCT BETWEEN THE INTAKE AND THE COMBUSTOR.
[RULE 204]
22. THE OWNER OR OPERATOR OF SOUTHEAST RESOURCE RECOVERY FACILITY (SERRF) SHALL CONDUCT PERFORMANCE TESTS ON AN ANNUAL BASIS IN ACCORDANCE WITH THE AQMD TEST PROCEDURES AND 40 CFR 60.58b. WRITTEN NOTICE OF SUCH PERFORMANCE TESTS SHALL BE PROVIDED TO THE AQMD SEVEN (7) DAYS PRIOR TO THE TEST SO THAN AN OBSERVER MAY BE PRESENT.

THE PERFORMANCE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF ONE OF THE THREE COMBUSTOR/BOILER EXHAUST STREAMS FOLLOWING THE BAGHOUSE UNLESS OTHERWISE REQUESTED BELOW FOR THE FOLLOWING POLLUTANTS:

- A. HYDROCARBONS
- B. PARTICULATE MATTER
- C. HYDROGEN CHLORIDE
- D. EXHAUST FLOW RATE, WET AND DRY
- E. POLYNUCLEAR AROMATIC HYDROCARBONS (BENZO-A-PYRENE, BENZO-E-PYRENE, BENZO-A-ANTHRACENE AND CORONENE).
- F. TETRA- THROUGH OCTA-CHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURANS
- G. HEAVY METALS (ARSENIC, BERYLLIUM, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL, AND ZINC)
- H. OPACITY
- I. FLUE GAS TEMPERATURE AT THE INLET TO THE BAGHOUSE DURING DIOXIN/FURAN TEST
- J. LOAD LEVEL (STEAM FLOW OR FEEDWATER FLOW) DURING DIOXIN/FURAN TEST
- K. OXIDES OF NITROGEN (NO_x)
- L. OXIDES OF SULFUR (SO_x)
- M. CARBON MONOXIDE
- N. FUGITIVE ASH USING EPA METHOD 22

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IF THE PERFORMANCE TESTS OF ALL THREE COMBUSTION UNITS DEMONSTRATE THAT DIOXIN/FURAN EMISSIONS ARE LESS THAN OR EQUAL TO 7 ng/DSCM (TOTAL MASS) FOR A 2-YEAR PERIOD, THE OWNER OR OPERATOR MAY ELECT TO CONDUCT ANNUAL PERFORMANCE TEST ON ONLY ONE OF THE THREE UNITS. UNDER THIS ALTERNATIVE TESTING SCHEDULE, A DIFFERENT UNIT SHALL BE TESTED IN SEQUENCE EACH YEAR. IF ANY ANNUAL TEST INDICATES DIOXIN/FURAN EMISSIONS EXCEED 7 ng/DSCM (TOTAL MASS), PERFORMANCE TESTS SHALL BE CONDUCTED ON ALL THREE COMBUSTION UNITS UNTIL SERRF CAN QUALIFY FOR THE ALTERNATIVE TESTING SCHEDULE.
[RULE 1303(a)(1)-BACT; 40CFR 60 Subpart Cb]

23. THE OWNER OR OPERATOR OF SERRF SHALL SUBMIT WRITTEN RESULTS OF THE PERFORMANCE TESTS TO THE AQMD BY FEBRUARY 1ST OF EACH YEAR FOLLOWING THE CALENDAR YEAR IN WHICH THE TESTS WERE CONDUCTED. THE OWNER OR OPERATOR OF SERRF SHALL ALSO COMPLY WITH THE REPORTING AND RECORDKEEPING REQUIREMENTS SPECIFIED IN 40 CFR 60.59b, AS APPLICABLE.
[RULE 1303(a)(1)-BACT; 40CFR 60 Subpart Cb]
24. ALL RECORDS REQUIRED BY THIS PERMIT OR 40 CFR 60.59b, AS APPLICABLE, SHALL BE MAINTAINED AND KEPT ON FILE FOR A PERIOD OF AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204; 40CFR 60 Subpart Cb]

Periodic Monitoring:

- 25 THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE DIFFERENTIAL PRESSURE ACROSS THE FILTER DOES NOT EXCEED 15 INCHES WATER COLUMN. THE OPERATOR SHALL DETERMINE AND RECORD THE PARAMETER BEING MONITORED ONCE EVERY WEEK.
[RULE 3004 (a)(4)]
26. THE OPERATOR SHALL PERFORM A BIANNUAL INSPECTION OF THE EQUIPMENT AND BAGS FOR LEAKS, BROKEN OR TORN BAGS AND IMPROPERLY INSTALLED BAGS. ADDITIONAL INSPECTION SHALL BE CONDUCTED WHEN THE STACK OPACITY AS MEASURED BY THE CONTINUOUS OPACITY MONITORING SYSTEM EXCEEDS 5% FOR ONE HOUR OR MORE. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE BAGS;

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B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

[RULE 3004 (a)(4)]

27. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE AQMD, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S): TO PROVE COMPLIANCE WITH CONDITION 25.

[RULE 3004 (a)(4)]

28. THE OPERATOR SHALL USE THE DUST COLLECTOR IN SUCH A MANNER THAT THE DIFFERENTIAL PRESSURE ACROSS THE FILTER DOES NOT EXCEED 5 INCHES WATER COLUMN. THE OPERATOR SHALL DETERMINE AND RECORD THIS PARAMETER ONCE EVERY WEEK.

[RULE 3004 (a)(4)]

Emissions and Reporting:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

Conditions (A/N 497354)

1. CONSTRUCTION AND OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THIS 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. OPERATION OF THIS EQUIPMENT SHALL NOT RELEASE FUGITIVE EMISSIONS OF POWDER ACTIVATED CARBON INTO THE ATMOSPHERE.

[RULE 204]

4. THIS EQUIPMENT SHALL BE LOCATED IN AN ENCLOSED BUILDING.

[RULE 204]

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5. THE POWDER ACTIVATED CARBON SACKS SHALL BE STORED IN AN ENCLOSED BUILDING.
[RULE 204]

6. RECORDS OF THE POWDER ACTIVATED CARBON REPLACEMENT DATES AND USAGE (LBS) SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST,
[RULE 204]

7. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETE WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE AQMD.
[RULE 205]