Potential to Emit Calculations, Pyrolysis Oven

Equipment: One (1) pyrolysis oven to remove grease from parts with a load capacity of 400 lbs/hr.

Calculations:
Pyrolysis oven:
Emission Factors are from Bayco Industries of California Burnoff Oven, Dec. 15, 1985 for Oven Model #42

Pollutant	Load Capacity	Emission
PM	400 lb/hr	0.039 lb/hr
SOx	400 lb/hr	0.003 lb/hr
NOx	400 lb/hr	0.058 lb/hr
HC	400 lb/hr	0.005 lb/hr
CO	400 lb/hr	0.028 lb/hr

PTE for PM:
Pyrolysis oven:
(0.039 lb/hr)(8760 hr/yr)/(2000 lb/ton) = 0.171 tpy PM
Total = 0.171

PTE for PM_{10}
Assuming all PM is PM_{10}: 0.171 tpy PM_{10}

PTE for SO_2:
Pyrolysis oven:
(0.003 lb/hr)(8760 hr/yr)/(2000 lb/ton) = 0.013 tpy SO_2
Total = 0.013

PTE for NOx:
Pyrolysis oven:
(0.058 lb/hr)(8760 hr/yr)/(2000 lb/ton) = 0.254 tpy NO_X
Total = 0.254

PTE for CO:
Pyrolysis oven:
(0.028 lb/hr)(8760 hr/yr)/(2000 lb/ton) = 0.123 tpy CO
Total = 0.123

PTE for HC:
Pyrolysis oven:
(0.005 lb/hr)(8760 hr/yr)/(2000 lb/ton) = 0.022 tpy
Total = 0.022

Total for VOC: 0.022 + 0.0014 = 0.023 tpy

Conclusion:
This project is not major for any of the criteria pollutants.