

First name _____ Last name _____ ID _____

Test 1
(The 2nd law of Thermodynamics)

1. For a particular power plant, the heat added and rejected both occurs at constant temperature; no other processes experience any heat transfer. The heat is added in the amount of 3,000 kJ at 400°C and is rejected in the amount of 1,200 kJ. Find the temperature of heat rejected to satisfy Clausius equality.