PREHEAT BOILER FEEDWATER

STEAM BOILER EXHAUST
PREHEATING BOILER FEEDWATER

AVG. COMBUSTION LOAD 100 % OF HP

EXHAUST THERMOMETER
VENT VALVE
RELIEF VALVE
FEEDWATER THERMOMETER
MODULATING FEEDWATER VALVE W/ PUMP SHUTOFF END SWITCH
NORMALLY OPEN BALL OR GATE VALVE
NORMALLY CLOSED BYPASS GLOBE VALVE
CHECK VALVE
BOILER SHUT OFF

STACK TO ECONOMIZER TRANSITION
CLEAVER BROOKS ECONOMIZER
WIRING REQUIREMENTS
DRIFTER, THROTTLING VALVE, OR BYPASS RELIEF VALVE FOR CONSTANT FLOW THROUGH THE ECONOMIZER DURING EXTENDED PERIODS OF TIME DURING FEEDWATER VALVE SHUT OFF.
EXISTING CONDENSATE OR DRAINER TANK
TREATED MAKEUP WATER
ECONOMIZER DRAIN & NATURAL GAS CONDENSATE TO DRAIN

MOTOR STARTER CONTROL CABINET
BOILER FEED PUMP

ECONOMIZER DRAIN & NATURAL GAS CONDENSATE TO DRAIN

THIS FLOW DIAGRAM SUGGESTS A BASIC FLOW DESIGN AVAILABLE FOR CONSIDERATION REGARDING THE INSTALLATION OF A CLEAVER BROOKS EXHAUST STACK ECONOMIZER. AS IT MAY BE MODIFIED DEPENDING ON SPECIFIC INSTALLATION REQUIREMENTS OR AN ALTERNATE FLOW DESIGN WHICH MAY BE REQUIRED, CLEAVER BROOKS IS NOT RESPONSIBLE FOR ANY MODIFICATIONS, CHANGES, OR SELECTIONS.