RECON WATER HEATER
START-UP FORM

*Please complete **ONE (1) form for each UNIT** at the site and return to AERCO for warranty validation within 30 days of start-up. After completion, e-mail this form to: **STARTUP@AERCO.COM**.*

Completed By:_____ **Date:**_____

Location

Installation Name: _____ SST Technician: _____

Street Address: _____ Company: _____

City, State, Zip: _____ Phone #: _____

AERCO Sales Rep: _____ **UNIT SERIAL #:** _____

Units

Registered Unit(s) is an RECON ☐ 500 ☐ 1000

Quantity of Units at Job Site _____ _____

RECON Combustion Calibration

Note: Consult Chapter 4 of RECON O&M Manual, GF-147, for proper oxygen (O_2) settings at the 16% (RECON 500) or 20% (RECON 1000) calibration point. Also, provide the data shown in the table below for indicated valve positions.

Ambient combustion air temperature during calibration: _____ °F

Inlet Gas Manifold Supply Pressure: _____ in. W.C. @ 100%

Gas Pressure downstream of the SSOV at 16% / 20% valve position _____ inches W.C.

RECON 500 Valve Position	RECON 1000 Valve Position	Oxygen (O_2) (%)	Carbon Monoxide (CO) (ppm)	Nitrous Oxide (NOx) (ppm)	Flame Strength (µA)	SSOV Outlet Pressure (in. W.C.)
16%	-					
20%	20%					
24%	30%					
30%	40%					
40%	50%					
60%	60%					
80%	80%					
100%	100%					

Temperature Calibration for RECON Water Heater

Note: Consult Chapter 4 of GF-147 for temperature calibration procedure.

1. Water Heater setpoint? _____ °F
2. Minimum load adjustment control setting? _____
3. Maximum load adjustment control setting? _____
4. Lower aquastat setting? (Typically set 20°F above unit set point) _____ °F

Water Heater Management (WHM) Set-Up

1.	Is RS485 (Modbus) wiring “Daisy-Chained” between units?	☐ Yes	☐ No
2.	Are the Sequencing Valves connected to the 4-pin Molex connectors from the unit	☐ Yes	☐ No
3.	Is a hose bib installed in the outlet piping?	☐ Yes	☐ No
4.	Are check valves installed in the cold water inlet?	☐ Yes	☐ No
5.	Are check valves installed in the recirculation line?	☐ Yes	☐ No

Gateway Configuration

Name: _____ Gateway Model: ProtoNode (Serial) ☐

Phone Number: _____ ProtoNode (Lon) ☐

E-Mail Address: _____

Job Name: _____

Input wiring termination to the Gateway translation device (Check one)

- EIA-485 (2 wire) ☐
- EIA-485 (4 wire) ☐
- EIA-232 ☐

Building Automation System (BAS) protocol (Check one)

- BacNet:
  - o IP: ☐
  - o MS/TP: ☐
- Johnson Controls - N2: ☐
- LonWorks: ☐
- Modbus - IP: ☐

What Baud Rate. (Check One):

- 156,000 ☐
- 76,800 ☐
- 38,400 ☐
- 19,200 ☐
- 9,600 ☐
- Other _____

BAS Device Address #'s _____

N2 Device Node ID _____

OR:

BACnet Device Instance #'s _____

BACnet Network Number _____

BACnet IP Address _____

OR:

LonWorks Program ID _____

ADDITIONAL NOTES: