

**WITNESS TESTING TEST FACILITY INSPECTION**  
**LIQUID TO LIQUID HEAT EXCHANGER PROGRAM**

Participant's Company Name: \_\_\_\_\_

Location: \_\_\_\_\_

1. What is the operating range of your facility:
  - (a) Capacity, kBtuh     Minimum \_\_\_\_\_ Maximum \_\_\_\_\_
  - (b) Water Flow, gpm
    - Hot Stream     Minimum \_\_\_\_\_ Maximum \_\_\_\_\_
    - Cold Stream     Minimum \_\_\_\_\_ Maximum \_\_\_\_\_

2. What is the pumping arrangement for the test facility?

- a) A pump for each stream                                 \_\_\_\_\_
- b) One pump for both streams                                 \_\_\_\_\_
- c) Can have both a) or b)                                 \_\_\_\_\_

3. What provision is made for the Independent Third Party Instrumentation?

- a) Temperature
  - aa) Thermo well (1/4 in. probe)                                 \_\_\_\_\_
  - ab) Directly into the stream                                 \_\_\_\_\_
  - (1/4 in compression fitting)
- b) Water Pressure Drop
  - ba) Off common tap                                 \_\_\_\_\_
  - ab) Separate tap (1/4 in. compression fitting)\_\_\_\_\_

4. How long does it take for you to install a unit for test (fully instrumented)?

	Persons	Hours
Direct Supervision Man-Hours	_____	_____

5. How long does it take you to conduct a rating test (start to finish, include calculations)?

	Persons	Hours
Direct Supervision Man-Hours	_____	_____

6. How many shifts per day will you employ for the AHRI witness testing? \_\_\_\_\_

7. Where do you place your water temperature measuring instruments?

- (a) Thermo Well \_\_\_\_\_
- (b) Directly into the stream \_\_\_\_\_

8. What type of instruments do you use for determining water temperatures?

- (a) RTD \_\_\_\_\_
- (b) Thermister \_\_\_\_\_
- (c) Other \_\_\_\_\_

How often do you calibrate this instrument(s)? Every \_\_\_\_\_ Months

Is the primary standard traceable to NIST? \_\_\_\_\_

9. What type of water flow measuring instruments do you use?

- (a) Magnetic Meter \_\_\_\_\_
- (b) Turbine Meter \_\_\_\_\_
- (c) Orifice Meter \_\_\_\_\_
- (d) Other \_\_\_\_\_

How often do you calibrate this instrument(s)? Every \_\_\_\_\_ Months

Is the primary standard traceable to NIST? \_\_\_\_\_

Is flow measuring instrument(s) installed to any code standards? \_\_\_\_\_

10. What instruments do you use to measure water pressure drop?

- (a) Transducers \_\_\_\_\_
- (b) Gauges \_\_\_\_\_

(c) Other \_\_\_\_\_

How often do you calibrate this instrument? Every \_\_\_\_\_ Months

Is the primary standard traceable to NIST? \_\_\_\_\_

11. Explain your data acquisition system.

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Complied by: \_\_\_\_\_ Date: \_\_\_\_\_