

EQUIPMENT TESTS FOR HHST PASTEURIZATION SYSTEMS WITH FDD LOCATED AFTER REGENERATOR AND FINAL COOLER

Refer to test nos. in Appendix I of PMO (2003 Revision)

TEST NO.	INSTRUMENT OR DEVICE	TEST OBJECTIVE
1	Indicating Thermometers	Temperature accuracy
2	Recording Thermometer	Temperature accuracy
3	Recording Thermometer	Time accuracy
4	Indicating and Recording Thermometer	Recording vs. Indicating thermometer
5.1	FDD	Leakage past FDD
5.2	FDD	FDD - Freedom of movement
5.4	FDD	Device assembly (dual stem)
5.5	NOT REQUIRED WITH DOWNSTREAM FDD	Manual diversion
5.6	FDD	Response time
5.7	FDD	Time delay (inspect)
5.8	FDD	Time delay (CIP)
5.9	NOT APPLICABLE TO HHST	Time delay (leak detect flush)
6	NOT APPLICABLE	Leakage
7	Indicating Thermometers	Response time
8	Recording Thermometers	Response time
9.1	NOT APPLICABLE	Regenerator pressures
9.2.1	Differential Pressure Switches/Controllers	Calibration (zero)
9.2.2	NOT REQUIRED WITH DOWNSTREAM FDD	Differential pressure across regenerator
9.2.3	Differential Pressure Switches/Controllers	Differential pressure across regenerator
9.3.1	NOT REQUIRED WITH DOWNSTREAM FDD	Interwiring check
9.3.2	NOT REQUIRED WITH DOWNSTREAM FDD	Interwiring check
10.1	NOT APPLICABLE	Temperature cut-in-cut-out
10.2	FDD	Temperature cut-in-cut-out
10.3	NOT APPLICABLE	Temperature cut-in-cut-out
11.1	NOT APPLICABLE TO HHST	Holding time
11.2.a	NOT APPLICABLE TO HHST	Holding time
11.2.b	NOT APPLICABLE	Flow alarm
11.2.c	NOT APPLICABLE	Loss of signal / low flow alarm
11.2.d	NOT APPLICABLE TO HHST	Flow rate cut-in/cut-out
11.2.e	NOT APPLICABLE TO HHST	Time delay
11.3	Holding Tubes (Indirect Heating)	Holding time
11.4	NOT APPLICABLE	Holding time
11.5	NOT APPLICABLE	Holding time
12.1	Systems with Indirect Heating	Sequence logic
12.2	NOT APPLICABLE	Sequence logic
13	Pressure Switch	Pressure in holding tube
14	NOT APPLICABLE	Differential pressure across injector
15	Electronic Controls	Electro-Magnetic Interference