

Appendix C FORM TR-DS2 WITNESS TEST PROCEDURE AND CHECKLIST

AHRI CERTIFICATION PROGRAM FOR MECHANICAL TRANSPORT REFRIGERATION UNITS

Participant: Date of Test: Witness Test Number: Test Results:	
the Representative contract for the Mechanical Transpo be used in conjunction with Mechanical Transport Refr P). Where the AHRI General	Representatives: The following Witness Test Procedure and Checklist is to be used by ceted by AHRI (Representative) to document all steps required to conduct witness tests out Refrigeration Certification Program. This Witness Test Procedure and Checklist is to the AHRI General Operations Manual (OM) for AHRI Certification Programs, the injury injury injury in the complete checklist witness Test Procedure and Checklist differ, the other the completed checklist shall be submitted to AHRI upon the completion of the witness
If the AHRI Approved Test Notify AHRI Notify Participant	Stand within a Facility (Facility) fails to comply with the conditions listed below:
REPRESENTATIVE DATA POINT (IF INITIALS APPLICABLE)	
Pre-Visit	
fo	When setting up for a trip to Witness Test a Mechanical Transport Refrigeration Unit (TRU) or AHRI Certification Programs, several information items are required. Verify the following information as received from AHRI: 1. AHRI Selection Letter 2. Copy of the latest AHRI Facility Inspection Approval Report 3. Test Site Location 4. Participant's Contact(s) with Phone Number and email 5. TRU Test Unit Model Number 6. TRU Test Unit Serial Model 7. Model Performance Ratings 8. Unit rated voltage, amperage and frequency (if applicable)
V	 Verify the following information as received from the Participant: Verification of Power Input Instrumentation requirements Mutually agreed upon test date of when to arrive at the Participant's specified facility Directions to the Participant's specified facility Estimate of when testing will be completed
	nform the Participant that the unit can be set-up as per the latest edition of the TR OM when he Representative arrives

REPRESENTATIVE DATA POINT (IF APPLICABLE)

Pre-Visit (contin	1.)	
		Be sure that all Laboratory instrumentation has current calibration stickers. Participant to provide copy of calibration certificates, calibration procedures, and photos/schematics for the test cells to be used.
		Is instrumentation on site yet? (Yes or No)
Day of Test		
		Upon arrival, request a brief meeting of the involved parties to review the following information: 1. Safety rules at the test site 2. Instrumentation List Calibration Summary Sheet (to be placed in the project file) 3. Confirm test conditions and unit voltage 4. Test set-up; location of Laboratory instrumentation
		Representative shall unpack and visually inspect all Laboratory instrumentation
		Representative shall install the Laboratory instrumentation
		Representative shall visually inspect and confirm the test unit nameplate against the AHRI Selection Letter to confirm identity of the unit under test.
		Representative shall authorize starting the test sample unit

REPRESENTATIVE DATA POINT (IF INITIALS APPLICABLE)

Instrumentation Setup Test

All verifications shall be conducted at steady state conditions as the first test point. Representative shall confidence that the state of the state	irm and
record that the Laboratory instrumentation is in agreement with the Facility's instruments. If these criteria are	not met,
interchange the Laboratory instrumentation to confirm they are correct.	

interchange the Laboratory		to confirm they are correct.
		eps should be taken to ensure that the discrepancy is resolved. In cases and no damage is apparent, the Laboratory instrumentation data for that
	1.1	Ensure the Air Temperature to Condenser is within the limits specified in the selected AHRI Standard
	1.2	Ensure Return Air Temperature to Forced-Circulation Air-Cooler is within the limits specified in the selected AHRI Standard
	1.3	Ensure required data as defined by the selected AHRI Standard is being measured and at the prescribed interval as denoted in the AHRI Standard
	1.4	Reference correct bulkhead setup in the selected AHRI Standard
	test so the shall verify	operator is to inform the Representative when they are ready to initiate the Representative can record test data simultaneously. The Representative that the Facility test conditions remain within the allowable tolerances for n of the test period, by checking the Representative's test condition ents.

REPRESENTATIVE DATA POINT (IF INITIALS APPLICABLE)

High Temp Test	
The Representative shall confirm all of the Standard:	e following data collected at each test point are in accordance with the
2.1	Data collected at required time interval
2.2	Required Temperature channels recorded
2.3	Required Pressure channels recorded
2.4	Required Energy Input channels recorded
2.5	Required Rotational Speed channels recorded (where direct measurement is not possible, a calculated value can be provided)
The Representative shall confirm all of the Certified Product Directory:	following at the conclusion of the test are in accordance with the AHRI
3.1	Calculated Capacity
3.2	Compressor Speed
Low Temp Test	
The Representative shall confirm all of the Standard:	e following data collected at each test point are in accordance with the
2.6	Data collected at required time interval
2.7	Required Temperature channels recorded
2.8	Required Pressure channels recorded
2.9	Required Energy Input channels recorded
2.10	Required Rotational Speed channels recorded (where direct measurement is not possible, a calculated value can be provided)
Certified Product Directory:	following at the conclusion of the test are in accordance with the AHRI
3.3	Calculated Capacity
3.4	Compressor Speed

REPRESENTATIVE DATA POINT (IF INITIALS APPLICABLE)

Electric Standby High Temp Test (if applicable)		
The Representative shall confirm all Standard:	of the	following data collected at each test point are in accordance with the
	2.11	Data collected at required time interval
	2.12	Required Temperature channels recorded
	2.13	Required Pressure channels recorded
	2.14	Required Energy Input channels recorded
	2.15	Required Rotational Speed channels recorded (where direct measurement is not possible, a calculated value can be provided)
The Representative shall confirm all Certified Product Directory:	of the	following at the conclusion of the test are in accordance with the AHRI
	3.5	Calculated Capacity
	3.6	Compressor Speed
Electric Standby Low Temp Test (if applicable)		
Low Temp Test (if applicable)	of the	following data collected at each test point are in accordance with the
Low Temp Test (if applicable) The Representative shall confirm all		following data collected at each test point are in accordance with the Data collected at required time interval
Low Temp Test (if applicable) The Representative shall confirm all	2.16	, ,
Low Temp Test (if applicable) The Representative shall confirm all	2.16 2.17	Data collected at required time interval
Low Temp Test (if applicable) The Representative shall confirm all	2.16 2.17 2.18	Data collected at required time interval Required Temperature channels recorded
Low Temp Test (if applicable) The Representative shall confirm all	2.162.172.182.19	Data collected at required time interval Required Temperature channels recorded Required Pressure channels recorded
Low Temp Test (if applicable) The Representative shall confirm all Standard:	2.162.172.182.192.20	Data collected at required time interval Required Temperature channels recorded Required Pressure channels recorded Required Energy Input channels recorded Required Rotational Speed channels recorded (where direct
Low Temp Test (if applicable) The Representative shall confirm all Standard: ———————————————————————————————————	2.162.172.182.192.20	Data collected at required time interval Required Temperature channels recorded Required Pressure channels recorded Required Energy Input channels recorded Required Rotational Speed channels recorded (where direct measurement is not possible, a calculated value can be provided)

Post Test	
	After the test is completed, an electronic copy of the Facility's test data will be provided to the Representative. Any required post-test photographs may be gathered by the Representative
	The results are then calculated by the Laboratory (using the Participant data) to compare with the Participant's calculated results as well as a separate Laboratory calculation. Any instrumentation discrepancies shall be included in the final test report. The Participant shall be informed of the final test results, and if the sample met the Certification Program criteria. If the sample fails, the Participant decides the next course of action as per the TR OM.
	If discrepancies were observed between the program participants and the Laboratory instrumentation, they should be so noted in the Laboratory test report along with any required follow-up. During the next visit to the program Participant's Facility, the Representative shall verify that the corrective action was performed.
	The Laboratory test report, along with the raw data obtained from both the Facility and the Laboratory instrumentation, shall be issued to AHRI within 30 calendar days. The Laboratory shall invoice AHRI and the Participant in accordance with the AHRI/Laboratory Testing Services Agreement.
	This checklist & all supporting documents have been reviewed & approved by:
	PRINTED NAME OF REPRESENTATIVE

SIGNATURE OF REPRESENTATIVE

DATE