RPBA Test Using a Mako MK2 2-Valve Test Kit, per USC FCCCHR Manual 10

Procedure 1 NOTIFY OWNER, identify, inspect, & observe assembly. 2 OPEN TEST COCKS a. Open and leave open Test Cock (TC) #4, then TC #3, TC #2, and finally TC #1 b. Fully close TC #1, TC#2, TC #3, and TC #4 Note: If needed, install appropriate fittings to test cocks 3 ATT ACH TEST NIT a. Verify MKZ is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MK2 test kit valves c. Connect high side hose from MK2 to TC #3 e. Connect low side hose from MK2 to TC #3 e. Connect low side hose from MK2 to TC #3 e. Connect Test Stull, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) c. Slowly open TC #3 fully, then open high side bleed valve (leave open) 5 ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Walt for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, MOTE the reading as the apparent differential pressure across the #1 Check Valve 6 TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than % turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valve and was the physass hose from the low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve d. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve (Static differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve e. Slowly			
2. OPEN TEST COCKS a. Open and leave open Test Cock (TC) #4, then TC #3, TC #2, and finally TC #1 b. Fully close TC #1, TC #2, TC #3, and TC #4 Note: If needed, install appropriate fittings to test cocks 3. ATTACH TEST KIT 1. A. Verify MK2 is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MK2 test kit values c. Connect high side hose from MK2 to TC #2 d. Connect low side hose from MK2 to TC #3 e. Connect bypass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #2 fully, then open high side bleed valve (leave open) b. Slowly open TC #2 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve approximately 1 turn d. RECORD paid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve f. Den the high side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve and wait for psid reading (Press the Capture Button) across #1 Check Valve c. S	Step	Procedure	RPBA
a. Open and leave open Test Cock (TC) #4, then TC #3, TC #2, and finally TC #1 b. Fully close TC #1, TC#2, TC #3, and TC #4 Note: If needed, install appropriate fittings to test cocks 3. ATTACH TEST KIT a. Verify MK2 is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MK2 test kit valves c. Connect high side hose from MK2 to TC #3 e. Connect by uside hose from MK2 to TC #3 e. Connect by uside hose from MK2 to TC #3 e. Connect by uside hose from MK2 to TC #3 e. Connect by pass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSEs a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) b. Slowly open TC #2 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve on more than * turn c. Slowly Open low side bleed valve no more than * turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve as "Geosed dight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose from the ligh side bleed valve must be great	1.	NOTIFY OWNER, identify, inspect, & observe assembly.	
b. Fully close TC #1, TC#2, TC #3, and TC #4 Note: If needed, install appropriate fittings to test cocks 3. ATTACH TEST KIT a. Verify MK2 is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MK2 test kit valves c. Connect lips side hose from MK2 to TC #3 d. Connect low side hose from MK2 to TC #3 e. Connect typass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve b. Open high side bleed valve no more than ¼ turn d. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve no more than ¼ turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve T. TEST ZC HECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #1 C2 Check Valve as "doesd tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (static differential pressure across #1 Check valve, e. Slowly Close the low side bleed valve and high side bleed valve remaining open b. Open the low side bleed valve and wait for psid reading (Press the Capture Button) across #1 Check Valve c. Slowly Open 82 shutoff valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button)	2.		
Note: If needed, install appropriate fittings to test cocks 3. ATTACH TEST KIT a. Verify MKZ is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MKZ test kit valves c. Connect high side hose from MKZ to TC #2 d. Connect low side hose from MKZ to TC #3 e. Connect bypass hose to low side bleed valve on MKZ 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MKZ reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than ½ turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve unit the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes,			
3. ATTACH TEST KIT a. Verify MK2 is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MK2 test kit valves c. Connect high side hose from MK2 to TC #2 d. Connect bow side hose from MK2 to TC #3 e. Connect bow side hose from MK2 to TC #3 e. Connect bow side hose from MK2 to TC #3 e. Connect bypass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open Iow side bleed valve approximately 1 turn d. RECORD paid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabiliz			
a. Verify MKZ is turned on and captured values are cleared (Hold Down the Back Button) b. Close all MKZ test kit valves c. Connect high side hose from MKZ to TC #2 d. Connect low side hose from MKZ to TC #3 e. Connect bypass hose to low side bleed valve on MKZ 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close itigs side bleed valve c. Wait for MKZ reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve fi relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than ¼ turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHCK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "Closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 Check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve unit the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabili			
b. Close all MK2 test kit valves c. Connect high side hose from MK2 to TC #2 d. Connect low side hose from MK2 to TC #3 e. Connect bypass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #2 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than % turn d. RECORD poid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve until the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve e. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Val	3.		
c. Connect high side hose from MK2 to TC #2 d. Connect low side hose from MK2 to TC #3 e. Connect bypass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve approximately 1 turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve f. TEST#2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opening point AND at least 5.0 psid) a. With bypass hose fill connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve unit if the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve e. Slowly Close the low side bleed valve d. Open Low and High Bleed valves; drain water from hose(s) e. Notify ow			
d. Connect low side hose from MK2 to TC #3 e. Connect bypass hose to low side bleed valve on MK2 ### BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #2 fully, then open high side bleed valve (leave open) ### Slowly open TC #2 fully, then open high side bleed valve (leave open) ### Slowly open TC #2 fully, then open high side bleed valve (leave open) ### Slowly open TC #2 fully, then open high side bleed valve (leave open) ### Slowly Open New Zerading to stabilize, then slowly close the low side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve #### TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open low side bleed valve approximately 1 turn c. Slowly Open low side bleed valve and trun at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the #2 Check Valve as "closed tight" (relief valve must be greater than the relief valve opening point AND at least 5.0 psid) ###################################			
e. Connect bypass hose to low side bleed valve on MK2 4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #3 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve aproximately 1 turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve until the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve d. Open Low and High Bleed valves; drain water from hose(s) e. Notify owner			
4. BLEED AIR FROM HOSES a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #2 fully, then open low side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than ¼ turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "Closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve until the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve 9. REMOVE EQUIPMENT a. Close all test equipment and fittings c. Slowly open #2 shutoff valve d. Open Low and High Bleed valves; drain water from hose(s) e. Notify owner			
a. Slowly open TC #3 fully, then open low side bleed valve (leave open) b. Slowly open TC #2 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than ½ turn d. RECORD posid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve until the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve b. REMOVE EQUIPMENT a. Close all test cocks b. Remove all test equipment and fittings c. Slowly open #2 shutoff valve d. Open Low and High Bleed valves; drain water from hose(s) e. Notify owner			
b. Slowly open TC #2 fully, then open high side bleed valve (leave open) 5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than ¼ turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve until the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve c. Slowly Close the low side bleed valve d. Open Low and High Bleed valves; drain water from hose(s) e. Notify owner	4.		
5. ISOLATE a. Close #2 shutoff valve b. Close high side bleed valve c. Wait for MK2 reading to stabilize, then slowly close the low side bleed valve d. If relief valve doesn't open, NOTE the reading as the apparent differential pressure across the #1 Check Valve 6. TEST RELIEF VALVE a. Attach bypass hose from low side bleed valve to high side bleed valve b. Open high side bleed valve approximately 1 turn c. Slowly Open low side bleed valve no more than % turn d. RECORD psid reading (Press the Capture Button) at first discharge of water from the Relief Valve e. Close both high and low bleed valves, then Detach bypass hose from the low side bleed valve 7. TEST #2 CHECK VALVE a. Attach bypass hose from the high side bleed valve on MK2 to TC #4 b. Fully Open TC #4 c. Open low side bleed valve d. Once the reading exceeds the apparent differential pressure across #1 Check Valve, e. Slowly Close the low side bleed valve f. Open the high side bleed valve and wait for psid reading to stabilize g. RECORD the #2 Check Valve as "closed tight" (relief valve closed) or "leaked" (relief valve opens) 8. TEST #1 CHECK VALVE (Static differential pressure across #1 check valve must be greater than the relief valve opening point AND at least 5.0 psid) a. With bypass hose still connected to TC #4 and high side bleed valve remaining open b. Open the low side bleed valve until the reading exceeds the apparent differential pressure across #1 Check Valve c. Slowly Close the low side bleed valve d. After the reading stabilizes, RECORD psid reading (Press the Capture Button) across #1 Check Valve 9. REMOVE EQUIPMENT a. Close all test cocks b. Remove all test equipment and fittings c. Slowly open #2 shutoff valve d. Open Low and High Bleed valves; drain water from hose(s) e. Notify owner			
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