BAC UNIVERSAL ELECTRIC
CONTRACTING • MAINTENANCE
FIRE ALARM • SERVICE

Building Name:	Tynes Bay						
Date:	December 17, 2021						
ANNUAL SPRINKLER TESTING WITH BAC (Daren Smith)							
Node 1							
Fire Pump Room							
Fire Water & Domestic Water	Bypass Valve	N/A	N/A		N/A	10" OSNY	
Jockey Pump inlet Valve	Fire Pump Room	N/A	N/A		N/A	1 1/4" gate valve	
Jockey Pump outlet Valve	Fire Pump Room	N/A	N/A		N/A	1 1/4" gate valve	
Zn 24 Fire Pump Room	SprinklrFlow	NODE 1	L2M041	✔	Alarm	WFDTHA	34 SECONDS
Zn 24 Fire Pump Room	SupplyValve2	NODE 1	L2M042	✔	SUPERV	2" BFVS	
Electric fire pump	SuctionValve	NODE 1	L2M043	✔	SUPERV	10" OSNY	CHAINED
Diesel fire pump	SuctionValve	NODE 1	L2M044	✔	SUPERV	10" OSNY	CHAINED
Electric fire pump	DishchrgeVlv	NODE 1	L2M045	✔	SUPERV	8" BFVS	
Diesel fire pump	DishchrgeVlv	NODE 1	L2M046	✔	SUPERV	8" BFVS	
FirePump TestHeader	ISO Valve	NODE 1	L2M047	✔	SUPERV	8" BFVS	
FP Rm W Underground	SupplyValve2	NODE 1	L2M048	✔	SUPERV	6" BFVS	
FP Rm E Underground	SupplyValve1	NODE 1	L2M049	✔	SUPERV	6" BFVS	
Fire Pump RmSystem	SupplyValve3	NODE 1	L2M050	✔	SUPERV	8" BFVS	
Zn 24 Fire Pump Room	SupplyValve1	NODE 1	L2M051	✔	SUPERV	2" BFVS	
Zn 24 Fire Pump Room	Bypass Valve	NODE 1	L2M052	✔	SUPERV	2" BFVS	
Fire Pump RmSystem	SupplyValve4	NODE 1	L2M053	✔	SUPERV	8" BFVS	
Fire Pump Room	Test Valve 1	NODE 1	L2M054	✔	SUPERV	8" BFVS	
Fire Pump Room	Test Valve 2	NODE 1	L2M055	✔	SUPERV	8" BFVS	
Elec F/P Run	Fire Pump Room	NODE 1	L2M057	✔	SUPERV		
Elec F/P Phase Loss	Fire Pump Room	NODE 1	L2M058	✔	SUPERV		
Elec F/P Phase Rever	Fire Pump Rm	NODE 1	L2M059		SUPERV		Cannot test this function
Elec F/P Alt Source	Fire Pump Rm	NODE 1	L2M060	✔	SUPERV		Tested Electrically
Diesel Pump Run	Fire Pump Room	NODE 1	L2M120	X	SUPERV		NOT IN OPERATION
Diesel Pmp NotInAuto	Fire Pump Room	NODE 1	L2M121	X	SUPERV		NOT IN OPERATION
DieselFirePump Fault	Fire Pump Rm	NODE 1	L2M122	X	SUPERV		NOT IN OPERATION
Fire Reserve Valve	Fire Pump Rm	NODE 1	L2M124	✔	SUPERV		Tested Electrically
Water Tank #2 Valve	Fire Pump Rm	NODE 1	L2M125	✔	SUPERV		Tested Electrically
Storage Supply							
Zn 25 storage Supply	SprinklrFlo	NODE 1	L2M021	✔	Alarm	WFD30-2AV	13 SECONDS
Zn 25 storage Supply Valve # 3		NODE 1	L2M066	✔	SUPERV	3" BFVS	
Zn 25 storage Supply Valve # 2		NODE 1	L2M067	✔	SUPERV	3" BFVS	
Zn 25 storage Supply Valve # 1		NODE 1	L2M068	✔	SUPERV	3" BFVS	
Zn 25 storage Supply	Bypass Valve	NODE 1	L2M069	✔	SUPERV	3" BFVS	
Tipping Hall							
Tipping NW Hose Reel	Iso Valve	NODE 1	L2M013	✔	SUPERV		
Refuse W hose Reel	Iso Valve	NODE 1	L2M014	✔	SUPERV	1 1/2" BFVS	
Tipping SW Hose Reel	Iso Valve	NODE 1	L2M015	✔	SUPERV	1 1/2" BFVS	
Tipping SW Cannon	Iso Valve	NODE 1	L2M016	X	SUPERV		Obstructed
Tipping NW Cannon	Iso Valve	NODE 1	L2M017	X	SUPERV	2 1/2" BFVS	Obstructed
Refuse W Cannon	Iso Valve	NODE 1	L2M018	✔	SUPERV		
Tipping SE Hose Reel	Iso Valve	NODE 1	L2M019	✔	SUPERV	1 1/2" BFVS	
Tipping NE Hose Reel	Iso Valve	NODE 1	L2M020	✔	SUPERV	1 1/2" BFVS	
Zn 21 Refuse Pit	SprinklrFlow	NODE 1	L2M031	✔	Alarm	PS10-2A	
Zn 21 Refuse Pit	Supply Valve	NODE 1	L2M032	✔	SUPERV	6" BFVS	
Zn 22 Tipping Hall	SprinklrFlow	NODE 1	L2M033	✔	Alarm	PS10-2A	
Zn 22 Tipping Hall	Supply Valve	NODE 1	L2M034	✔	SUPERV	6" BFVS	
Zn 23 Bailing Hall	SprinklrFlow	NODE 1	L2M035	✔	Alarm	PS10-2	
Zn 23 Bailing Hall	Supply Valve	NODE 1	L2M036	✔	SUPERV	6" BFVS	
TippingHall Valve Rm	SupplyValve1	NODE 1	L2M037	✔	SUPERV	6" BFVS	
TippingHall Valve Rm	SupplyValve2	NODE 1	L2M038	✔	SUPERV	6" BFVS	
TippingHall Valve Rm	Bypass Valve	NODE 1	L2M039	✔	SUPERV	6" BFVS	

Bailing Hall Warehouse							
Bailing S Hose Reel	Iso Valve	NODE 1	L2M023	✔	SUPERV	1 1/2" BFVS	
Bailing W Hose Reel	Iso Valve	NODE 1	L2M024	✔	SUPERV	1 1/2" BFVS	
Bailing NE Hose Reel	Iso Valve	NODE 1	L2M025	✔	SUPERV	1 1/2" BFVS	
Office/ Control Area							
L5 Fire Hose Cabinet	Iso Valve	NODE 1	L1M013	✔	SUPERV	1 1/2" BFVS	
L4 Fire Hose Cabinet	Iso Valve	NODE 1	L1M014	✔	SUPERV	1 1/2" BFVS	
L6 Fire Hose Cabinet	Iso Valve	NODE 1	L1M017	✔	SUPERV	1 1/2" BFVS	
Node 2							
Ash Plant							
Ash Plant Main	SprinklrFlow	NODE 2	L1M054	✔	Alarm	WFD40AV	22 SECONDS
Ash Plant Main	Tamper	NODE 2	L1M055	✔	SUPERV	4" BFVS	
Zn 27 WaterBow	Ash Plant L2	NODE 2	L1M056	✔	Alarm	WFD30-2AV	17 SECONDS
Zn 27 Valve #1	Zone Shutoff	NODE 2	L1M057	✔	SUPERV	3" BFVS	
Zn 27 Valve #2	Strainer Out	NODE 2	L1M058	✔	SUPERV	3" BFVS	
Zn 27 Valve #3	Strainer In	NODE 2	L1M059	✔	SUPERV	3" BFVS	
Zn 27 Bypass Valve	StrBypass	NODE 2	L1M060	✔	SUPERV	3" BFVS	
Boiler House							
Level 1							
L1 NW Hose Cabinet	Iso Valve	Node 2	L1M025	X	SUPERV	1 1/2" BFVS	SEIZED
L1 SE Hose Cabinet	Iso Valve	Node 2	L2M035	✔	SUPERV	4" BFVS	
L1Standpipe Firehose	SupplyValve1	Node 2	L2M042	✔	SUPERV	4" BFVS	
L1Standpipe Firehose	SupplyValve2	Node 2	L2M043	✔	SUPERV	4" BFVS	
L1Standpipe Firehose	Bypass Valve	Node 2	L2M044	✔	SUPERV	4" BFVS	
Level 2							
Stores+OfficeL2 Hose	Iso Valve	Node 2	L2M090	✔	SUPERV	2" BFVS	
Boiler House							
Node 6							
Level 1							
Zn1 N Transformer #2	SprinklerFlo	Node 6	L1M001	✔	Alarm	PS10-2	Tested Electrically
Zn1 N Transformer #2	Supply Valve	Node 6	L1M002	✔	SUPERV	4" BFVS	
Zn2 S Transformer #1	SprinklerFlo	Node 6	L1M003	✔	Alarm	PS10-2	Tested Electrically
Zn2 S Transformer #1	Supply Valve	Node 6	L1M004	✔	SUPERV	4" BFVS	
Zn3 Ext Cable Trench	SprinklerFlo	Node 6	L1M005	✔	Alarm	PS10-2A	Tested Electrically
Zn3 Ext Cable Trench	Low Air	Node 6	L1M006	✔	SUPERV	EPS40-2	Tested Electrically
Zn3 Ext Cable Trench	Supply Valve	Node 6	L1M007	✔	SUPERV	4" BFVS	
Zn 5 compresar/SwGrRm	SprinklerFlo	Node 6	L1M008	✔	Alarm	PS10-2	Tested Electrically
Zn 5 compresar/SwGrRm	Low Air	Node 6	L1M009	✔	SUPERV	EPS40-2	Tested Electrically
Zn 5 compresar/SwGrRm	Supply Valve	Node 6	L1M010	✔	SUPERV	4" BFVS	
Zn 10 MCC Room	SprinklerFlo	Node 6	L1M011	✔	Alarm	PS10-2	Tested Electrically
Zn 10 MCC Room	Low Air	Node 6	L1M012	✔	SUPERV	EPS10-2	Tested Electrically
Zn 10 MCC Room	Supply Valve	Node 6	L1M013	✔	SUPERV	4" BFVS	
Zn1 N Transformer #2	Test Valve	Node 6	L1M024	✔	SUPERV	4" BFVS	
Zn2 S Transformer #1	Test Valve	Node 6	L1M025	✔	SUPERV	4" BFVS	
Zn3 Ext Cable Trench	Test Valve	Node 6	L1M026	✔	SUPERV	4" BFVS	
Zn 5 compresar/SwGrRm	Test Valve	Node 6	L1M027	✔	SUPERV	4" BFVS	
Zn 10 MCC Room	Test Valve	Node 6	L1M028	✔	SUPERV	4" BFVS	
Lv11 SprinklrValveRm	SupplyValve1	Node 6	L1M035	✔	SUPERV	6" BFVS	
Lv11 SprinklrValveRm	SupplyValve2	Node 6	L1M036	✔	SUPERV	6" BFVS	
Lv11 SprinklrValveRm	Bypass Valve	Node 6	L1M037	✔	SUPERV	6" BFVS	
Zn 5 New Turbine Hall	Control Valve	Node 6	L1M038	✔	SUPERV	4" BFVS	
New Turbine Hall	Test Valve	Node 6	L1M039	✔	SUPERV	4" BFVS	
New Turbine Hall	Flow Alarm	Node 6	L1M040	✔	Alarm	PS10-2	Tested Electrically
New Turbine Hall	Low Air	Node 6	L1M041	X	SUPERV	EPS10-2	
Boiler House							

Node 7							
Level 3							
Zn 12 Elect Chase	SprinklerFlow	NODE 7	L1M002	✔	Alarm	PS10-2	Tested Electrically
Zn 12 Elect Chase	Supply Valve	NODE 7	L1M004	✔	SUPERV	2 1/2" BFVS	
Z19 Control Rm	SprinklerFlow	NODE 7	L1M005	✔	Alarm	PS10-2	Tested Electrically
Z19 Control Rm	Supply Valve	NODE 7	L1M007	✔	SUPERV	4" BFVS	
Zn 12+19 Level 3	SupplyValve1	NODE 7	L1M014	✔	SUPERV	4" BFVS	
Zn 12+19 Level 3	SupplyValve2	NODE 7	L1M015	✔	SUPERV	4" BFVS	
Node 8							
Boiler House							
Level 1							
Zn 8 Turbine Hall	SprinklerFlow	NODE 8	L1M009	✔	Alarm	PS10-2	Tested Electrically
Zn 8 Turbine Hall	Low Air	Node 8	L1M010	✔	SUPERV	EPS40-2	Tested Electrically
Zn 8 Turbine Hall	SupplyValve3	NODE 8	L1M011	✔	SUPERV	4" BFVS	
Zn 8 Turbine Hall	Test Valve	NODE 8	L1M012	✔	SUPERV	4" BFVS	
Zn 8 Turbine Hall	SupplyValve1	NODE 8	L1M013	✔	SUPERV	4" BFVS	
Zn 8 Turbine Hall	SupplyValve2	NODE 8	L1M014	✔	SUPERV	4" BFVS	
Zn 8 Turbine Hall	Bypass Valve	NODE 8	L1M015	✔	SUPERV	4" BFVS	
GP Tank Low Water	H20 Storage	NODE 1	L1M051	X	SUPERV	Relay Output	PLC Controller Not Functional
Tank #2 Low Water	H20 Storage	NODE 1	L1M052	X	SUPERV	Relay Output	PLC Controller Not Functional
GP Tank Empty	H20 Storage	NODE 1	L1M053	X	SUPERV	Relay Output	PLC Controller Not Functional
Tank #2 High Water	H20 Storage	NODE 1	L1M054	X	SUPERV	Relay Output	PLC Controller Not Functional
Fire Reserve Low	H20 Storage	NODE 1	L1M055	X	SUPERV	Relay Output	PLC Controller Not Functional
Tank#2 Low Low Level	H20 Storage	NODE 1	L1M056	X	SUPERV	Relay Output	PLC Controller Not Functional
Fire Reserve Empty	H20 Storage	NODE 1	L1M057	X	SUPERV	Relay Output	PLC Controller Not Functional
PublicSuplyValveOpen	H20 Storage	NODE 1	L1M058	X	SUPERV	Relay Output	PLC Controller Not Functional

Bermuda Air Conditioning Limited
Airkool House, 9 Mill Creek Road, Pembroke HM 05, Bermuda
P.O. Box HM 1095, Hamilton HM EX, Bermuda
Telephone: 441-292-0881 Facsimile: 441-292-6887

BAC

AIR CONDITIONING • PLUMBING • REFRIGERATION
FIRE PROTECTION • SALES & SERVICE

ANNUAL FIRE SYSTEM TEST AND INSPECTION

ELECTRIC FIRE PUMP

Location Inspected: TYNE'S BAY **Date:** DEC.9/2021

Address: PALMETTO ROAD

Contact Name: BAS.FM **Phone:** _____ **Inspector:** D.SMITH

EQUIPMENT

FIRE PUMP

Manufacturer & Model: AURORA **Serial Number:** 10-2013546

Type: ☐ Horizontal Split-Case ☐ Vertical Split-Case ☐ Vertical In-Line ☐ Turbine

Rated Capacity: 1500 GPM @ 150 PSI pressure @ 150% 115 PSI 3560 RPM

MOTOR

Manufacturer & Model: MARATHON **Serial Number:** _____

Voltage: 460 VAC **Current:** 220 AMPS 3560 RPM 200 HP

CONTROLLER

Manufacturer & Model: TORNATECH **Serial Number:** Z74545

JOCKEY PUMP

Manufacturer & Model: GOULDS **Serial Number:** 3SV11TE4F60

MOTOR

Manufacturer & Model: BALDOR **Serial Number:** W1711203441

Voltage: 206/230 VAC **Size:** 1.25" 2 HP **Water Supply Source:** Tank

CONTROLLER

Manufacturer & Model: TORNATECH **Serial Number:** Z877692

PUMP TEST & INSPECTION RESULTS

JOCKEY PUMP

	Yes	No
1. Jockey pump operational?	☑	☐
2. Jockey pump appears properly aligned?	☑	☐
3. Jockey pump valves open?	☑	☐

Jockey pump "Start" 115 PSI "Stop" 128 PSI

FIRE PUMP

Annual pump test was run using the following method: (check one)

- ☐ **Method A.** Discharge of flow through hose streams. Flow readings taken at each hose stream
- ☑ **Method B.** Discharge through by-pass flow meter to drain or suction reservoir. Flow readings taken by flow meter.
- ☐ **Method C.** Discharge through by-pass flow meter directly returned to pump suction. Flow readings taken by flow meter.

Note: At least once every three years method A or B must be used.

Flow GPM	Suction Pressure PSI	Discharge Pressure psi	Percent Capacity	Voltage			Current			RPM
				A-B	A-C	B-C	A	B	C	
0	3	155	churn	440	443	441	145	152	149	3578
750	3	154	50%	439	442	441	173	181	183	3569
1500	2	140	100%	439	442	440	192	202	203	3566
2250	0	96	150%	437	440	439	223	234	233	3563

	Yes	No
4. Are the values in the above table acceptable?	☐	☐
5. Shaft end play acceptable?	☐	☐

Bermuda Air Conditioning Limited
Airkool House, 9 Mill Creek Road, Pembroke HM 05, Bermuda
P.O. Box HM 1095, Hamilton HM EX, Bermuda
Telephone: 441-292-0881 Facsimile: 441-292-6887

AIR CONDITIONING • PLUMBING • REFRIGERATION
FIRE PROTECTION • SALES & SERVICE

Fire Pump Test & Inspection Results continued...	Yes	No
6. Automatic start functions properly?	☑	☐
Automatic start: 100 PSI		
Time needed for electric motor to accelerate to full speed: 4 seconds		

	Yes	N/A	No
7. Circulation relief valve and pressure relief valve operated properly during all flow tests?	☑	☐	☐
8. Pump packing gland showing slight discharge?	☑	☐	☐
9. Pump free from unusual noises/vibrations?	☑	☐	☐
10. Packing boxes, bearings and pump casing free from overheating?	☑	☐	☐
11. Automatic stop functions properly?	☐	☑	☐
Automatic stop: NA PSI			
12. Run period timer functions properly?	☑	☐	☐
13. No-flow (churn) test run for 10 min?	☑	☐	☐
14. Were the fire pump & controller free of any alarm indicators or visible abnormalities during no flow test?	☑	☐	☐
15. All alarm conditions simulated?	☑	☐	☐
16. All alarms operated?	☑	☐	☐
17. Timer reset and graph paper changed?	☐	☑	☐
18. Test data and flow charts completed?	☑	☐	☐
19. Suction screens cleaned after flow?	☐	☑	☐
20. Pressure switch setting calibrated?	☐	☐	☑
21. Motor bearings greased?	☑	☐	☐
Automatic Transfer Switch Test			
22. Power failure simulated during peak flow?	☐	☐	☑
23. Connection made to alternate power source?	☐	☐	☑
24. After termination of simulated power failure did motor reconnect to the normal power source?	☐	☐	☑

SYSTEMS TEST & INSPECTION RESULTS

Type of System: Combined Sprinkler/Standpipe **Make & Model:** _____

	Yes	N/A	No
25. Did fire alarm operate properly during testing?	☑	☐	☐
26. Did the air compressor operate satisfactorly?	☐	☑	☐
27. Do the trim, piping and gauges appear to be in good condition?	☐	☐	☑
28. Are all sprinkler control valves in correct open or closed position?	☑	☐	☐
29. Are all control valves sealed or supervised?	☑	☐	☐
30. Do sprinklers appear to be in good condition?	☐	☐	☑
31. Do sprinklers appear to be free of corrosion, paint, or loading and visible obstructions?	☐	☐	☑
32. Are extra sprinklers available on the premises?	☑	☐	☐
33. the exterior condition of piping, drain valves, check valves, hangers and strainers appears satisfactory?	☑	☐	☐

STANDPIPE VALVES	Yes	N/A	No
34. Caps are in place and not damaged?	☑	☐	☐
35. Are the hose threads free of damage?	☑	☐	☐
36. Handles are present and not damaged?	☑	☐	☐
37. Gaskets are free of damage or deterioration?	☑	☐	☐
38. Valves are free of leaks?	☑	☐	☐

FIRE DEPARTMENT CONNECTIONS	Yes	N/A	No
39. Are fire department connections visible and accessable?	☑	☐	☐
40. Do couplings or swivels rotate smoothly?	☑	☐	☐
41. Are couplings or swivels free from damage?	☑	☐	☐
42. Are plugs and caps in place and not damaged?	☑	☐	☐
43. Gaskets are in place and in good condition?	☑	☐	☐
44. Identification signs are in place?	☑	☐	☐
45. Is the check valve free of leaks?	☑	☐	☐

POST INSPECTION CHECKLIST

	Yes	N/A	No
46. Is jockey pump selector switch in auto position?	☑	☐	☐
47. Are all valves in correct open or closed position?	☑	☐	☐
48. Are all pressure gauges reading normal?	☑	☐	☐
49. System left in normal operating condition	☑	☐	☐

Bermuda Air Conditioning Limited
Airkool House, 9 Mill Creek Road, Pembroke HM 05, Bermuda
P.O. Box HM 1095, Hamilton HM EX, Bermuda
Telephone: 441-292-0881 Facsimile: 441-292-6887

AIR CONDITIONING • PLUMBING • REFRIGERATION
FIRE PROTECTION • SALES & SERVICE

REMARKS
RECOMMEND RE-PIPING SOME OF THE PACKING DRAINS
RECOMMEND RE-PACKING FIRE PUMP (IF POSSIBLE)
ELECTRIC FIRE PUMP OPERATED AT TIME OF TEST BUT THE ENTIRE PUMP LOOKS CORRODED AND IN ROUGH SHAPE.
RECOMMEND PURCHASING A NEW FIRE PUMP TO HAVE ON STAND BYE
RECOMMEND PURCHASING A SPARE JOCKEY PUMP
RECOMMEND PURCHASING A NEW JOCKEY PUMP CONTROLLER
EXTERNAL CONNECTIONS ARE ALL CORRODED. RECOMMEND SERVICNG CONNECTIONS OR REPLACING CONNECTIONS
ALL SPRINKLER ROOMS SHOULD BE CLEANED AND INSPECTED. IE. NO LIGHTS, NO SIGNAGE. AS PER CODE
DOORS TO SPRINKLER ROOMS IN TIPPING HALL AND FIRE PUMP ROOM SHOULD BE REPLACED. AS [PER CODE
SIGNAGE SHOULD REPLACED OR INSTALLED. AS PER CODE
ENTIRE SPRINKLER SYSTEM IN GENERAL IS DIRTY AND CORROED DUE TO THE EXTREME ELEMENTS AT TYNES BAY
RECOMMENDING LUBRIATING AND PAINTING ALL PRE-ACTIONS SYSTEMS AND ALL THE SPRINKLER HEADERS

DEFICIENCIES FOUND AS A RESULT OF THIS INSPECTION AND SUGGESTED IMPROVEMENTS WERE DISCUSSED WITH THE UNDERSIGNED OWNER OR OWNER'S REPRESENTATIVE

Signature of owner or representative

Date

Bermuda Air Conditioning Limited
Airkool House, 9 Mill Creek Road, Pembroke HM 05, Bermuda
P.O. Box HM 1095, Hamilton HM EX, Bermuda
Telephone: 441-292-0881 Facsimile: 441-292-6887

BAC
AIR CONDITIONING · PLUMBING · REFRIGERATION
FIRE PROTECTION · SALES & SERVICE

ANNUAL FIRE SYSTEM TEST AND INSPECTION

DIESEL FIRE PUMPS

Location Inspected: TYNE'S BAY **Date:** DEC.9/2021

Address: PALMETTO ROAD

Contact Name: BAS.FM **Phone:** _____ **Inspector:** D.SMITH

EQUIPMENT

FIRE PUMP

Manufacturer & Model: AURORA **Serial Number:** 10-2013549

Type: ☑ Horizontal Split-Case ☐ Turbine

Rated Capacity: 1500 gpm @ 150 PSI pressure @ 150% 138 PSI 2350 RPM

ENGINE

Manufacturer & Model: CLARK **Serial Number:** PR6068H788437

2350 RPM 240 HP **Water Supply Source:** Tank

CONTROLLER

Manufacturer & Model: TORNATECH **Serial Number:** Z74542

JOCKEY PUMP

Manufacturer & Model: GOULDS **Serial Number:** 3SV11TE4F60

MOTOR

Manufacturer & Model: BALDOR **Serial Number:** W1711203441

VOLTAGE: 206/230 VAC **SIZE:** 1.25" 2 HP

CONTROLLER

Manufacturer & Model: TORNATECH **Serial Number:** Z877692

PUMP TEST & INSPECTION RESULTS

JOCKEY PUMP

	Yes	No
1. Jockey pump operational?	☑	☐
2. Jockey pump appears properly aligned?	☑	☐
3. Jockey pump valves open?	☑	☐

Jockey pump "Start" 115 PSI "Stop" 128 PSI

FIRE PUMP

Annual Fire Pump test was run using the following method: (check one)

- ☐ **Method A.** Discharge of flow through hose streams. Flow readings taken at each hose stream
- ☑ **Method B.** Discharge through by-pass flow meter to drain or suction reservoir. Flow readings taken by flow meter.
- ☐ **Method C.** Discharge through by-pass flow meter directly returned to pump suction. Flow readings taken by flow meter.

Note: At least once every three years method A or B must be used.

	Yes	No
4. Crankcase oil level normal?	☐	☐
5. Cooling water level normal?	☐	☐
6. Controller selector switch set at Auto?	☐	☐

Flow GPM	Suction Pressure PSI	Discharge Pressure PSI	Percent Capacity	Oil Pressure	Coolant Temp.	RPM
0			churn			
			50%			
NA			100%			
			150%			

	Battery #1	Battery #2
float - Voltage		
Current		
voltage - AC off		
voltage - AC on		
charging current		

	Yes	No
7. Are the values in the above tables acceptable?	☐	☐

AIR CONDITIONING · PLUMBING · REFRIGERATION
FIRE PROTECTION · SALES & SERVICE

Bermuda Air Conditioning Limited
Airkool House, 9 Mill Creek Road, Pembroke HM 05, Bermuda
P.O. Box HM 1095, Hamilton HM EX, Bermuda
Telephone: 441-292-0881 Facsimile: 441-292-6887

Fire Pump Test & Inspection Results continued...

	Yes	No
8. Automatic start functions properly?	☐	☐

Automatic start: _____ PSI

Time needed for diesel engine to reach running speed: _____ seconds

	Yes	N/A	No
9. Cooling water flowing from heat exchanger?	☐	☐	☐
10. Pump packing gland showing slight discharge?	☐	☐	☐
11. Packing boxes, bearings and pump casing free from overheating?	☐	☐	☐
12. Pump free from unusual noises/vibrations?	☐	☐	☐
13. Manual start functions properly?	☐	☐	☐
14. No-flow (churn) test run for 30 min?	☐	☐	☐
15. Were the fire pump & controller free of any alarm indicators or visible abnormalities during no flow test?	☐	☐	☐
16. Circulation relief valve and pressure relief valve operated properly during all flow tests?	☐	☐	☐
17. Exhaust system free of obvious leakage?	☐	☐	☐
18. All alarm conditions simulated?	☐	☐	☐
19. All alarms operated?	☐	☐	☐
20. Battery indicators on or failure indicators off?	☐	☐	☐
21. Battery terminals free from corrosion?	☐	☐	☐
22. Battery charging current readings normal?	☐	☐	☐
23. Hoses and connectors in fuel and coolant systems normal?	☐	☐	☐
24. Timer reset and graph paper changed?	☐	☐	☐
25. Test data and flow charts completed?	☐	☐	☐

Record engine running time meter reading: _____ Hours

26. Fuel tank at least 2/3 full?	☐	☐	☐

FIRE PUMP MAINTENANCE

Annual Maintenance Items (in addition to previous items)

	Yes	N/A	No
27. Changed pump bearing lubrication?	☐	☐	☐
28. Shaft end play acceptable?	☐	☐	☐
29. Transmission coupling right angle gear drive and mechanical moving parts lubricated?	☐	☐	☐
30. Circuit breakers passed trip test?	☐	☐	☐
31. Emergency manual starting means operated without power?	☐	☐	☐
32. Electrical connections secure?	☐	☐	☐
33. Pressure switch setting calibrated?	☐	☐	☐
34. Motor bearings greased?	☐	☐	☐
35. Fuel tank free of water and foreign material.	☐	☐	☐
36. Tank vents and overflow pipes free of obstructions.	☐	☐	☐
37. Fuel piping acceptable	☐	☐	☐
38. Oil and filters changed in diesel systems?	☐	☐	☐
39. Antifreeze changed in coolant system?	☐	☐	☐
40. Heater exchanger cleaned out?	☐	☐	☐
41. Duct work and louvers (combustion air) acceptable?	☐	☐	☐
42. Exhaust system free of back pressure?	☐	☐	☐
43. Exhaust system hangers and supports acceptable?	☐	☐	☐
44. Control and power wiring tight?	☐	☐	☐

Additional Recommended Maintenance:

FIRE PUMP OFFLINE AT TIME OF TEST

BAC
AIR CONDITIONING · PLUMBING · REFRIGERATION
FIRE PROTECTION · SALES & SERVICE

Bermuda Air Conditioning Limited
Airkool House, 9 Mill Creek Road, Pembroke HM 05, Bermuda
P.O. Box HM 1095, Hamilton HM EX, Bermuda
Telephone: 441-292-0881 Facsimile: 441-292-6887

SYSTEMS TEST & INSPECTION RESULTS

Type of System: Combined Sprinkler/Standpipe **Make & Model:** _____

	Yes	N/A	No
45. Did electric alarms operate properly during testing?	☐	☐	☑
46. Did fire alarm operate properly during testing?	☐	☐	☑
47. Did the air compressor operate satisfactorily?	☐	☐	☑
48. Do the trim, piping and gauges appear to be in good condition?	☐	☐	☑
49. Are all sprinkler control valves in correct open or closed position?	☐	☐	☑
50. Are all control valves sealed or supervised?	☐	☐	☑
51. Do sprinklers appear to be in good condition?	☐	☐	☑
52. Do sprinklers appear to be free of corrosion, paint, or loading and visible obstructions?	☐	☐	☑
53. Are extra sprinklers available on the premises?	☐	☐	☑
54. The exterior condition of piping, drain valves, check valves, hangers and strainers appears satisfactory?	☐	☐	☑

STANDPIPE VALVES

	Yes	N/A	No
55. Caps are in place and not damaged?	☑	☐	☐
56. Hose threads are free from damage?	☑	☐	☐
57. Handles are present and free from damage?	☑	☐	☐
58. Gaskets are free of damage or deterioration?	☑	☐	☐
59. Valves are free of leaks?	☑	☐	☐

FIRE DEPARTMENT CONNECTIONS

	Yes	N/A	No
60. Are fire department connections visible and accessable?	☑	☐	☐
61. Do couplings or swivels rotate smoothly?	☑	☐	☐
62. Are couplings or swivels free from damage?	☑	☐	☐
63. Are plugs and caps in place and not damaged?	☑	☐	☐
64. Gaskets are in place and in good condition?	☑	☐	☐
65. Identification signs are in place?	☑	☐	☐
66. Is the check valve free of leaks?	☑	☐	☐

POST INSPECTION CHECKLIST

	Yes	N/A	No
67. Is the fire pump selector switch in auto position?	☑	☐	☐
68. Is jockey pump selector switch in auto position?	☑	☐	☐
69. Are all valves in correct open or closed position?	☑	☐	☐
70. Are all pressure gauges reading normal?	☑	☐	☐

REMARKS

AT THE TIME OF TEST THE DIESEL FIRE PUMP WAS LOCKED OUT AND OFFLINE. LOOKS LIKE ENGINE WORK IS BEING COMPLETED

DEFICIENCIES FOUND AS A RESULT OF THIS INSPECTION AND SUGGESTED IMPROVEMENTS WERE DISCUSSED WITH THE UNDERSIGNED OWNER OR OWNER'S REPRESENTATIVE

_____ _____

Signature of owner or representative **Date**