

# **HOLIDAY ISLAND FIRE RATING RETROGRESSION**



# A REVIEW OF HOLIDAY ISLAND FIRE DEPARTMENT

- PERSONNEL
  - CHIEF
  - 3 FULL TIME FIREFIGHTERS
  - 25 VOLUNTEERS
  - 2 PART TIME FIREFIGHTERS
- VOLUNTEERS:
  - FIREFIGHTERS
  - EMS
  - SUPPORT/OPERATIONS



# A REVIEW OF HOLIDAY ISLAND FIRE DEPARTMENT

- STATIONS
  - STATION 1,  
HOLIDAY ISLAND  
DRIVE
  - ADMINISTRATION,  
TRAINING, CREW  
QUARTERS





# A REVIEW OF HOLIDAY ISLAND FIRE DEPARTMENT

- STATIONS

- STATION 2,  
BUSINESS  
DISTRICT
- RAPID RESPONSE  
TO BUSINESS  
PARK & PEACH  
TREE VILLAGE
- RURAL RESPONSE



# A REVIEW OF HOLIDAY ISLAND FIRE DEPARTMENT

- STATIONS
  - STATION 3, THE ISLAND
  - RESIDENTIAL AND CONDOMINIUM COVERAGE





# A REVIEW OF HOLIDAY ISLAND FIRE DEPARTMENT

- STATIONS
  - STATION 4,  
BEAVER TOWN
  - BEAVER  
CONTRACT
  - RURAL RESPONSE



# A REVIEW OF HOLIDAY ISLAND FIRE DEPARTMENT

- STATIONS
  - STATION 5,  
STATELINE
  - COVERS NORTH  
HALF OF HOLIDAY  
ISLAND



# FIRE RATING

- INSURANCE SERVICES OFFICE (ISO)
  - RATING 1-10
  - CURRENT RATING: 5/5X
  - TESTED 2022
  - NEW RATING OF 6/10
  - ONE YEAR TO IMPROVE THE FIRE DEPARTMENT





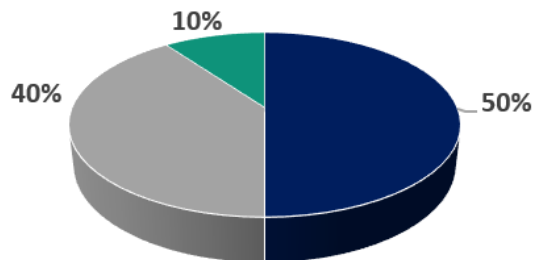
# FIRE RATING EFFECT ON HOME OWNERS INSURANCE

- 10 EQUALS NO FIRE RATING
  - INCREASE TO \$8,000/YR
- UNEASY INSURANCE COMPANIES RAISING RATES
- 3,000 SQ/FT HOME = MINIMUM \$300/YR INCREASE



# HOW ISO RATES THE F.D.

**Main Criteria to an ISO Fire Rating Score**



- Quality of staffing levels, training, and proximity of the firehouse
- Availability of water supply
- Quality of the areas emergency communications systems (911)

- **THREE SECTIONS**

- **EMERGENCY COMMUNICATIONS=10%**
- **WATER=40%**
- **FIRE DEPARTMENT=50%**

# 911 / COMMUNICATIONS



- 10% OF RATING
- CARROLL COUNTY
  - ANTIQUATED SYSTEMS
  - POOR PROCEDURAL HANDLING OF 911
  - LACK OF TRAINING
- 5.95/6.00



# WATER DEPARTMENT/WATER TRANSPORT



- 40% OF RATING
- WATER SYSTEM
  - SMALL WATER MAINS
  - HYDRANT ISSUES
  - LACK OF RECORD KEEPING

# WATER DEPARTMENT/WATER TRANSPORT



- 40% OF RATING
- WATER SYSTEM
  - SMALL WATER MAINS
  - HYDRANT ISSUES
  - LACK OF RECORD KEEPING
- WATER TRANSPORT
  - “FAIR”
- 16.41/40

# FIRE DEPARTMENT



- 50% OF RATING
- POOR RATINGS
  - PERSONNEL/STAFFING
  - TRAINING
  - FIRE APPARATUS
  - EQUIPMENT
  - STATIONS
- 25.09/50



# STAFFING

- RECOMMENDED:
  - 6 FIREFIGHTERS PER ENGINE
  - 3 PER LADDER TRUCK
  - 33 PEOPLE TOTAL
  - MUST BE ON DUTY



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- HIFD:
  - ON CALL TRAINED VOLUNTEERS ONLY COUNT FOR 1/3 OF AN ON DUTY FIREFIGHTER
  - 1.24 PEOPLE PERSONNEL PER INCIDENT
  - 11% TURNOUT



# TRAINING

- LACK OF TRAINED, CREDENTIALLED FIREFIGHTERS (5 VOLUNTEERS)
- LACK OF NEW HIRE PROGRAM
- LACK OF DRIVER TRAINING (60 HOURS INITIAL, 12 HOURS/YEAR)
- LACK OF RECRUIT TRAINING PROGRAM (240 HOURS)
- LACK OF COMPANY TRAINING (MIN 16 HOURS/MONTH)





# REQUIRED TRAINING

- FEMA: 4 CLASSES AT 4 HOURS EACH
- ADEM: HAZARDOUS MATERIALS CLASSES TOTALING 24 HOURS
- ARKANSAS ACT 833: 2 CLASSES TOTALING 32 HOURS
- ARKANSAS FORESTRY: 1 CLASS TOTALING 8 HOURS
- ARKANSAS EMS: 20 HOURS PER YEAR
- DEPARTMENT TRAINING:
  - BASIC LIFE SUPPORT—8 HOURS
  - EMERGENCY VEHICLE OPERATIONS—16 HOURS
  - DOT TRAFFIC INCIDENT MANAGEMENT—8 HOURS
  - EMERGENCY MEDICAL RESPONDER—40 HOURS

# FIRE APPARATUS



- ENGINE 1
- 1974 FORD (ORIGINAL BEAVER ENGINE)
- **OUT OF SERVICE**
- NO CREDIT FROM ISO

# FIRE APPARATUS



- ENGINE 2
- 1979 FORD
- GENERAL LACK OF EQUIPMENT
  - HOSE
  - NOZZLES
  - ADAPTERS
- BELOW MINIMUM PUMP SIZE
- FAILED MULTIPLE PUMP TESTS



# ENGINE 2

Draft Commander 3000®

Pump Test Per NFPA 1911 Apparatus Guidelines of Latest Edition 2017

20-MINUTE CAPACITY TEST 150 PSI GPM PUMP RATED AT: 1000 GPM												
Hose Layout 2 50' Sections of 3"			Nozzle Size 2"		Position of Transfer Valve							
Time	Water Temp	Rpm Tach Pump Panel	Engine Temp	Oil Pressure	Voltage	Auto Trans Temp.	Apparatus Gauge Vac	Test Gauge Vac	Apparatus Gauge Pressure	Test Gauge Pressure	Pitot/Flow	Actual GPM Flowed
Start	80	2750	190	20	+	N/A	0	2	120	120	40	1008
5										150	72	1008
10										150	72	1008
15										150	72	1008
20										150	72	1008

5-MINUTE OVERLOAD TEST 165 PSI												
Hose Layout 2 50' Sections of 3"			Nozzle Size 2"									
Time	Water Temp	Rpm Tach Pump Panel	Engine Temp	Oil Pressure	Voltage	Auto Trans Temp.	Apparatus Gauge Vac	Test Gauge Vac	Apparatus Gauge Pressure	Test Gauge Pressure	Pitot/Flow	Actual GPM Flowed
Start	80	2750	190	20			0	2	120	120	40	
5										160		

10-MINUTE 200 PSI 70% TEST												
Hose Layout 2 50' Sections of 3"			Nozzle Size 1 3/4"									
Time	Water Temp	Rpm Tach Pump Panel	Engine Temp	Oil Pressure	Voltage	Auto Trans Temp.	Apparatus Gauge Vac	Test Gauge Vac	Apparatus Gauge Pressure	Test Gauge Pressure	Pitot/Flow	Actual GPM Flowed
Start	80	2750	190	20			0	0	180	180	30	704
5										200	60	704
10										200	60	704

10-MINUTE 250 PSI 50% TEST												
Hose Layout 2 50' Sections of 3"			Nozzle Size 1 1/2"									
Time	Water Temp	Rpm Tach Pump Panel	Engine Temp	Oil Pressure	Voltage	Auto Trans Temp.	Apparatus Gauge Vac	Test Gauge Vac	Apparatus Gauge Pressure	Test Gauge Pressure	Pitot/Flow	Actual GPM Flowed
Start	80	2750	190	20			0	0	160	160	40	503
5										250	58	508
10										250	58	508

No Repairs Needed: \_\_\_\_\_ Repairs Needed: \_\_\_\_\_

FAIL

Service Company: Emergency Repair of Arkansas

Service Technician Name: SHERWIN MEHARG

Service Technician Signature: \_\_\_\_\_

Date: 4-21-21

Fire Department Name: HOLIDAY ISLAND

Truck# 1752

# FIRE APPARATUS



- ENGINE 3
- 2004 IHC DIESEL
- UNCERTIFIED PUMP
- INADEQUATE EQUIPMENT
  - LACK OF FIRE HOSE, NOZZLES
  - LACK OF EXTRA LOOSE EQUIPMENT SUCH AS FLASHLIGHTS, ADAPTERS

# FIRE APPARATUS



- ENGINE 4
- 1988 FORD (OBSOLETE, BUILDER CLOSED)
- PUMP IN NEED OF MULTIPLE REPAIRS
- LACK OF EQUIPMENT
  - NO HOSE TEST RECORDS
  - INSUFFICIENT NOZZLES
  - INSUFFICIENT ADAPTERS
  - INSUFFICIENT LOOSE EQUIPMENT



# FIRE APPARATUS



- ENGINE 4

# FIRE APPARATUS



- ENGINE 5
- 2005 FREIGHTLINER
- UNCERTIFIED PUMP
- LACK OF EQUIPMENT
  - NOT ENOUGH HOSE
  - NO HOSE TEST RECORDS
  - INSUFFICIENT LOSE EQUIPMENT

# FIRE APPARATUS

- ENGINE 5





# FIRE APPARATUS



- LADDER 1
- 1991 GRUMMAN (BUILDER OOS)
- INADEQUATE EQUIPMENT TO FUNCTION AS A SERVICE TRUCK
  - FAN, THERMAL IMAGING CAMERA, RESCUE TOOLS, LADDERS (TESTING), SAWS, LOOSE EQUIPMENT
  - LACK OF ASSIGNED/TRAINED STAFF
  - AWARDED 0.25 OF A POINT

# FIRE APPARATUS



- GENERAL OBSERVATIONS
  - NO RESERVE FIRE ENGINE
  - “POORLY EQUIPPED ENGINES”
  - MUST PASS ANNUAL PUMP TEST CERTIFICATION
  - LADDER TESTING REQUIRED
  - ANNUAL HOSE TESTING REQUIRED



# STATION

- STATION 5, NORTH HOLIDAY ISLAND, NOT CREDITED DUE TO A LACK OF A FUNCTIONING FIRE ENGINE.
- NORTH HOLIDAY ISLAND WILL BE RATED AT “10”, NO FIRE COVERAGE.





# RECOMMENDATIONS

- STAFFING
  - HIRE THREE MORE FULL TIME PERSONNEL
  - INCREASE PART TIME STAFFING TO COVER WEEKDAYS
  - INCENTIVES FOR VOLUNTEERS TO TRAIN, RESPOND AND STAFF STATIONS & EVENTS
  - FUND AND IMPLEMENT A COMPREHENSIVE VOLUNTEER RECRUITMENT AND RETENTION PROGRAM
  - MEET CURRENT REGULATIONS & NEEDS
    - 29 CFR 1910.134
    - HOSE TESTING, HYDRANT TESTING

# RECOMMENDATIONS

- TRAINING
  - ACA 2022-811 (ARKANSAS FIRE ACADEMY)
  - FULL TIME CREDENTIALLED TRAINING OFFICER
    - NEW HIRE PROGRAM
    - DRIVER TRAINING PROGRAM
    - RECRUIT FIREFIGHTER PROGRAM
    - CONTINUE COMPANY TRAINING PROGRAM WITH INCENTIVES FOR VOLUNTEER ATTENDANCE

# RECOMMENDATIONS

- FIRE APPARATUS
  - REPLACE THREE OUTDATED VEHICLES WITH THREE MODERN FIRE ENGINES
  - RETAIN THE BEST OF THE OLD TRUCKS AS A RESERVICE PUMPER FOR ISO CREDIT
  - PROPERLY EQUIP ALL DEPARTMENT FIRE ENGINES AND LADDER TRUCK TO MEET ISO SPECIFICATIONS
  - BEGIN PLANS TO REPLACE AGING LADDER TRUCK
  - START A VEHICLE REPLACEMENT FUND



# RECOMMENDATIONS

- WATER SUPPLY
  - START A COMPREHENSIVE FIRE HYDRANT MAINTENANCE PROGRAM WITH DETAILED RECORD KEEPING (WATER DEPARTMENT)
  - BEGIN RECORD KEEPING ON HYDRANT FLOW TESTING (FIRE DEPARTMENT)
  - CYCLE OUT OLD TANKER FIRE TRUCKS FOR NEWER, HIGHER PAYLOAD VEHICLES
  - REPAIR/REPLACE ALL OUT OF SERVICE HYDRANTS IN THE NEXT SIX MONTHS (WATER DEPARTMENT)
  - CONSIDER HIRING ONE EMPLOYEE TO OVERSEE HYDRANT MAINTENANCE, UPKEEP, AND RECORDS (WATER DEPARTMENT)
  - WATER MAIN REPLACEMENT WITH LARGER PIPES

# RECOMMENDATIONS

- MISCELLANEOUS
  - HIRE A FIRE INSPECTOR FOR FIRE PREVENTION INSPECTIONS, PRE-FIRE PLANNING, AND CODE ENFORCEMENT. COORDINATE ACTIVITIES WITH THE CITY OF HOLIDAY ISLAND
  - IMPROVE RECORD KEEPING IN THE FIRE DEPARTMENT
  - WORK WITH CARROLL COUNTY TO IMPROVE 911 CENTER
  - DEVELOP A FIVE-, TEN- AND TWENTY-YEAR PLAN FOR THE INCREASING DEMAND FOR EMERGENCY SERVICES IN HOLIDAY ISLAND
  - IMPLEMENT A LARGE EQUIPMENT REPLACEMENT FUND

# RECOMMENDATIONS

- REVIEW AND ADJUST THE FIRE DEPARTMENT BUDGET
- 2023 BUDGET LIMITATIONS
  - PROTECTIVE GEAR=\$3,500 < \$6,000
  - EQUIPMENT PURCHASES=\$4,000
  - VOLUNTEER REIMBURSEMENT=\$8,500 < \$16,000
  - VEHICLE MAINTENANCE=\$4,700 (COVERS 18 VEHICLES)
  - TRAINING=\$3,000
  - UNIFORMS=\$2,000 (FOR 40 PEOPLE)
  - EQUIPMENT REPAIR=\$3,800
  - BUILDING MAINTENANCE=\$5,000 (\$1,000 PER STATION)



# SUMMARY

- HOLIDAY ISLAND HAS LESS THAN ONE YEAR TO MAKE IMPROVEMENTS
- 911 / COMMUNICATIONS IS 10% OF ISO
- WATER DEPARTMENT IS 40%
- FIRE DEPARTMENT IS 50%
  - STAFFING
  - VEHICLES
  - EQUIPMENT

THANK YOU!

