

The Fire Suppression Rating Schedule

Out with the old and in with the new!
A Side-by-Side Comparison

LFCA Spring Conference

March 19, 2019

Bossier City, Louisiana



The New Fire Suppression Rating Schedule

How Today's Presentation will be Done:

Morning Session: Previous FSRS compared to New FSRS

Afternoon Session: Town Hall Forum for Q&A

The New Fire Suppression Rating Schedule

- A copy of this presentation may be downloaded from the PIAL website at <https://www.pial.org/>
- Also available on the PIAL Website (Municipal Division or Public Protection Section):
 - LA Addendum to the FSRS
 - Previous presentations from LFCA, APCO/NENA, Arson Conferences, etc...
 - Statements of Position by the PIAL Advisory Board
 - FSRS Tutorials
 - Other Interesting Items

The New Fire Suppression Rating Schedule

- 2013 – PIAL Board of Directors Approved the New Schedule and LA Addendum to the schedule for Use in Louisiana
- Filings with the Louisiana Department of Insurance were completed
- First Used In Louisiana for Gradings in 2017
- Communications Plan
 - LFCA Conferences
 - Fire Prevention Conferences
 - APCO/NENA Symposiums
 - Louisiana Municipal Association
 - Train the trainer - LFCA Presented Regional Presentations
 - PGAPs (Fire Department Level Consultation)
 - PIAL Town Hall Meetings

The New Fire Suppression Rating Schedule

- The PIAL PPC Rating is an Open Book Test...
 - Free copy of FSRS – Available from ISO through PIAL
 - Free copy of LA Addendum – Download from the PIAL website
 - Free sample copy of the Rating Questionnaire – Download from the PIAL website
 - All credits are “national standards-based”
 - NFPA, AWWA, APCO
- Professional Grading Assistance Program (PGAP)
 - Free consultation with PIAL is available on request

The New Fire Suppression Rating Schedule

Previous Schedule

- Communications 10 pts
- Fire Department 50 pts
- Water Supply 40 pts
- Divergence (-)

- Total = 100 pts

New Schedule

- Communications 10 pts
- Fire Department 50 pts
- Water Supply 40 pts
- Divergence (-)
- Community Risk Reduction 5.5 Pts

- Total = 105.5 pts

The New Fire Suppression Rating Schedule

Credit			Relative Classification	Credit			Relative Classification
90.00	-	105.5+	1	40.00	-	49.99	6
80.00	-	89.99	2	30.00	-	39.99	7
70.00	-	79.99	3	20.00	-	29.99	8
60.00	-	69.99	4	10.00	-	19.99	9
50.00	-	59.99	5	0.00	-	9.99	10

Communications

Previous Schedule

- Telephone Service 2 pts
- Operators 3 pts
- Dispatch Circuits 5 pts

New Schedule

- Emergency Reporting 3 pts
- Telecommunicators 4 pts
- Dispatch Circuits 3 pts

Communications

Previous Schedule - Telephone Service

- # of lines based on population
 - Business, Emergency, Alarm Companies
- Directory Listings
- Rollover to business line
- Verbal transfer of information between PSAPs
- Recording incoming calls

New Schedule - Emergency Reporting

- Type of 9-1-1 System – Basic or Enhanced
 - Wireless Phase I & II
 - Static and Nomadic VoIP
 - Basic CAD
 - CAD w/Management Information Systems
 - CAD w/Interoperability
 - CAD w/Geographic Information System (GIS/AVL)

Communications

Previous Schedule - Operators

- # of operators needed was based on the number of emergency calls received
- # per shift vs # needed earned 80% of available credit
- # awake at all times vs # needed earned 20% of available credit

New Schedule - Telecommunicators

- Performance
 - Alarm Receipt (***All Alarms***) (95% of VALID emergency calls answered within 15 seconds & 99% answered within 40 seconds)
 - Alarm Processing (***Any "FIRE" Call***) (90% transferred or dispatched within 64 seconds and 95% within 106 seconds)
- Use of Emergency Dispatch Protocols for the Fire Service
- Training and Certification
- Continuing Education / Quality Assurance

Communications

Previous Schedule - Dispatch Circuits

- # Dispatch Circuits Needed
- Type of Existing Dispatch Circuits
- Circuit Supervision
- Recording of Dispatches
- EPSS Types & Testing

New Schedule - Dispatch Circuits

- # Dispatch Circuits Needed
- Type of Existing Dispatch Circuits
- Monitoring for Integrity
- EPSS Types & Testing

Communications

QUESTIONS????

Fire Department

Previous Schedule

- Engine Companies 10 pts
- Reserve Engines 1 pt
- Pump Capacity 5 pts
- Ladder & Service 5 pts
- Reserve Ladder/Service 1 pt
- Distribution 4 pts
- Company Personnel 15+ pts
- Training 9 pts
- Public Fire Control 2 pts

New Schedule

- Engine Companies 6 pts
- Reserve Engines 0.5 pts
- Pump Capacity 3 pts
- Ladder & Service 4 pts
- Reserve Ladder/Service 0.5 pts
- Deployment Analysis 10 pts
- Company Personnel 15+ pts
- Training 9 pts
- Operational Considerations 2 pts

Fire Department

Previous Schedule – Engine Companies

- Inventory
 - 654 points
 - Pump Tests (100 points)
 - Annual for full credit
 - Hose Tests (50 points)
 - Annual for full credit
 - 250/200 psi
- Pump Size
 - 500 gpm for max credit
- Hose Load
 - 1,200' of supply line
- Response

New Schedule – Engine Companies

- Inventory
 - 600 points total
 - Pump Tests (100 points)
 - Annual for full credit
 - Hose Tests (50 points)
 - Annual for full credit
 - 300/200 psi
- Pump Size
 - 1,000 gpm for max credit
- Hose Load
 - 1,000' of $\geq 2.5''$ supply & 200' of 2'', 2.5'' or 3'' attack
- Response

Fire Department

Previous Schedule – Reserve Engines

- Inventory
 - 654 points
 - Pump Tests
 - Annual for full credit
 - Hose Tests
 - Annual for full credit
 - 250/200 psi
- Pump Size
 - 500 gpm for max credit
- Hose Load
 - 1,200' of supply line
- Response
- Replacement Method of Evaluating

New Schedule – Reserve Engines

- Inventory
 - 600 points total
 - Pump Tests (100 points)
 - Annual for full credit
 - Hose Tests (50 points)
 - Annual for full credit
 - 300/200 psi
- Pump Size
 - 1,000 gpm for max credit
- Hose Load
 - 1,000' of $\geq 2.5''$ supply & 200' of 2'', 2.5'' or 3'' attack
- Response
- Evaluated just like INS Engines

Fire Department

Previous Schedule – Pump Capacity

- 100% for INS & RES
 - 80% if no data is available
- 50% for “Other” pumps tested at 150psi
- AA pumps based on AA Factor
- Limited by BFF

New Schedule – Pump Capacity

- 100% for INS & RES
 - 75% if partial data is available
 - 50% if no data is available
- 50% for “Other” pumps tested at 150psi
- AA pumps based on AA Factor
- Limited by BFF

Fire Department

Previous Schedule – Service Companies

- Inventory
 - 334 points – Needs 14' combination ladder and 10' attic ladder
 - Additional ground ladders required on service trucks based on # of tall buildings
- # Needed based on # in service and assessment of built-upon area, hydrant counts, and tall buildings (3-stories or 35' to the eaves)
- Response
- Building Borrowing

New Schedule – Service Companies

- Inventory
 - 356 points – Needs 24' extension ladder, 14' combination ladder, 16' roof ladder, and 10' attic ladder
 - No additional ground ladders required based on tall buildings
- # Needed based on # in service and additional needed per Deployment Analysis and tall buildings (3-stories or 32' to the eaves)
- Response
- Building Borrowing

Fire Department

Previous Schedule – Ladder Companies

- Inventory
 - 784 points – Needs all service company equipment plus other items
 - Aerial Tests – Annual Inspection & NDT within 5 years
- # Needed based on # in service and assessment of built-upon area, hydrant counts, and tall buildings (35' to the eaves)
- Response
- Building Borrowing

New Schedule – Ladder Companies

- Inventory
 - 772 points – Needs all service company equipment plus other items
 - Aerial Tests – Annual Inspection & NDT within 5 years
- # Needed based on # in service and additional needed per Deployment Analysis and tall buildings (32' to the eaves)
- Response
- Building Borrowing

Fire Department

Previous Schedule – Reserve Ladder/Service

- Inventory
 - Same as INS Trucks
- Response
- # Needed based on # in service and assessment of built-upon area, hydrant counts, or tall buildings (35' to the eaves)
- If the area needs a ladder truck, the reserve needs to be a ladder truck

New Schedule – Reserve Ladder/Service

- Inventory
 - Same as INS Trucks
- Response
- # Needed based on # in service and additional needed per Deployment Analysis and tall buildings (32' to the eaves)
- If the area needs a ladder truck, the reserve needs to be a ladder truck

Fire Department

Previous Schedule – Distribution

- Credit based on road mile or hydrant distribution data
- Additional pumpers or service/ladder trucks may be needed based on hydrant counts or built-upon area

New Schedule – Deployment Analysis

- All areas will receive a road mile distribution study
- No additional engine company locations will be recommended
- NFPA 1710 data, if available, can be compared to the road mile data with final credit being based on the method that earns the most credit
- No additional service or ladder company locations will be recommended if NFPA 1710 standard is met
- Additional service/ladder trucks may be recommended at stations housing pumpers if the department does not meet the NFPA 1710 standard and the road miles within 2.5 of that station exceed 50% of a standard response district.

Fire Department

Previous Schedule – Company Personnel

- Paid manning is average daily manning of members responding on 1st alarm and performing company duties on the fire scene (Includes IC and Fire chief)
- Volunteer or On-Call manning is the average number of off-duty or volunteer members responding to fires in structures (divided by 3 or 6 depending on recordkeeping)
- Public Safety Officers are municipal employees whose official duties ALSO include responding to structural fire alarms (50% credit)
- Ambulance crews are members who perform company duties at the fire scene until needed to perform medical duties
 - All members must carry PPE on the medical unit
- AA personnel only creditable if AA is “needed”

New Schedule – Company Personnel

- Paid manning is average daily manning of members responding on 1st alarm and performing company duties on the fire scene (Includes IC and Fire chief)
- Volunteer or On-Call manning is the average number of off-duty or volunteer members responding to fires in structures (divided by 3 or 6 depending on record keeping)
- Public Safety Officers are municipal employees whose official duties ALSO include responding to structural fire alarms (50% credit)
- Ambulance crews are members who perform company duties at the fire scene until needed to perform medical duties
- All members must have PPE available to them at the fire scene
- AA personnel may be creditable even if AA is not “needed”

Fire Department

Previous Schedule – Training

- Drills - At a Training Center or Fire Station
 - 2-Acres, 3-story tower, burn building
 - 24-hrs/year.....Non-transferrable
- Company Training
 - 240-hrs/year (20/mo).....Transferrable @ 50%
- Officer Training: 12-hrs/year.....100% Transferrable
- New Driver Training: 40-hrs/year.....100% Transferrable
- Existing Driver Training: 12-hrs/year.....Not Transferrable
- HAZMAT Training: 3-hrs/year.....100% Transferrable
- Recruit Training: 240-hrs.....100% Transferrable
- Pre-Plans: Semi-annual for full credit

New Schedule – Training

- Drills - At Training Center Only (Except Mobile Props)
 - 2-Acres, 3-story tower, burn building
 - 18-hrs/year.....NOT Transferrable
- Company Training
 - 192-hrs/year (16/mo).....Transferrable @ 50%
- Officer Training.....100% Transferrable
 - 50% for Officer I or higher certifications
 - 50% for 12-hrs training/year
- New Driver Training: 60-hrs/year.....100% Transferrable
- Existing Driver Training: 12-hrs/year.....NOT Transferrable
- HAZMAT Training: 6-hrs/year.....100% Transferrable
- Recruit Training: 240-hrs.....100% Transferrable
- Pre-Plans: Annually for full credit

Fire Department

Previous Schedule – Operational Considerations

- N/A

New Schedule – Operational Considerations

- SOPs Reviewed Within 5-years
 - Response of Apparatus
 - Operation of Emergency Vehicles
 - Safety at Emergency Incidents
 - Communications
 - Apparatus Inspection and Maintenance
 - Fire Suppression
 - Company Operations
 - Automatic/Mutual Aid Operations
 - Training
 - Personnel Response
- Incident Management System Training Done Within 5-years
 - NIMS 100 or higher
 - Locally developed training meeting NIMS objectives

Fire Department

QUESTIONS????

Community Risk Reduction

Previous Schedule – Public Fire Control

- Bonus credit added to Fire Department Credits
 - Fire Incident Control
 - Fire Investigations
 - Fire Safety Education
- 2 points available

New Schedule – Community Risk Reduction

- Part of the schedule now
 - Fire Prevention
 - Fire Safety Education
 - Fire Investigations
- 5.5 points available

Community Risk Reduction

Previous Schedule – Fire Prevention

- Regulations – Adopted Editions
- Personnel
 - Qualifications, Certifications, and on-going training
- Enforcement & Inspection Activities
 - Plan Review
 - Fire Prevention Inspection Frequency & Record Keeping
 - Quality Control of Enforcement & Inspection Programs
 - Inspections of Private Fire Protection Equipment
 - Enforcement of Fire Prevention Ordinances
 - Coordination with Fire Department Training & Pre-planning Programs

New Schedule – Fire Prevention

- Regulations – Adopted Editions
- Staffing - % of structures inspected annually
- Certification & Training – Certified IAW NFPA 1031
- Continuing Education – 24-hrs/year
- Fire Prevention Programs
 - Plan review
 - Certificate of Occupancy Inspections
 - Quality Control
 - Code Compliance
 - Inspection of Private Fire Protection Equipment
 - Fire Prevention Ordinances
 - Coordination with Fire Department Training and Pre-planning Programs

Community Risk Reduction

Previous Schedule – Safety Education

- Procedures & Outlines for Delivery:
 - Residential, Schools, Commercial, Hospital & Nursing Homes
- Personnel Average Qualifications
- Delivery of Public Fire Safety Education Programs
 - % of Population Contacted

New Schedule – Safety Education

- Training & Certification
 - Trained in methods of teaching per AHJ
 - Instructor I or Life Safety Educator I or higher
- Continuing Education
 - 10-hrs/year in teaching techniques & processes
- Programs
 - Residential Fire Safety Program - % of population reached each year
 - Fire Safety Education in Schools
 - Fire Drills
 - ECE Curriculum
 - Juvenile Firesetter Intervention Program
 - Fire Safety Education Program for Occupancies Having Large Loss Potential or Hazardous Conditions

Community Risk Reduction

Previous Schedule – Fire Investigations

- Organization
- Personnel – Qualifications, Certifications & On-going Training
- LFIRS
- Juvenile Firesetter Referral

New Schedule – Fire Investigations

- Organization – Requires Ordinance
- Staffing – % of fires investigated
- Certification & Continuing Training
 - Certification IAW NFPA 1033
 - Full Time: 40-hrs/year continuing training
 - Company Level Officer: 8-hrs/year
- LFIRS – Prior 3 years

Community Risk Reduction

QUESTIONS?????

Water Supply

Previous Schedule – Supply System

- Needed Fire Flow Duration (NFF)
- Water System Capabilities
 - Lowest of NFF, Hydrant or Shuttle Flow Rate, Supply Works Capacity, and Hydrant Distribution
- For Hydrant Distribution
 - Hydrants w/pumper outlet within 1,000' of property get 1,000 gpm max credit depending on distance from the property

New Schedule – Supply System

- NFF – No changes
- Water System Capabilities
 - Lowest of NFF, Hydrant or Shuttle Flow Rate, Supply Works Capacity, and Hydrant Distribution
- For Hydrant Distribution
 - Hydrants w/pumper outlet within 1,000' of property get 1,500 gpm credit each regardless of the distance

Water Supply

Previous Schedule – Hydrant Size, Type, and Installation

Hydrant Size, Type & Installation (PH)	Points
With $\geq 6''$ branch and a pumper outlet; with or without $2\frac{1}{2}''$ outlets; or with $\geq 6''$ dry hydrant installed IAW applicable standards	100
With $\geq 6''$, no pumper outlet, but 2 or more $2\frac{1}{2}''$ outlets or with small barrel $< 5''$	75
With only one $2\frac{1}{2}''$ outlet	25
With $< 6''$ branch	25
Flush type (flush or ground level)	25
Cistern or suction point	25

New Schedule – Hydrant Size, Type, and Installation

- No Changes

Water Supply

Previous Schedule – Hydrant Inspections

- AWWA M-17 or NFPA 291 checklist
- Semi-Annual Inspections for full credit
- Deductions for hydrants with deficiencies or poor condition
- Deduct 10 points for incomplete inspections, an additional 10 points if not pressure tested and if drafting points and dry hydrants do not include drafting and pumping with a pumper deduct 40 points
- Deduct an additional 20 points if there are no records of claimed inspections

New Schedule – Hydrant Inspections

- AWWA M-17 or NFPA 291 checklist
- Annual Inspections for full credit (30/50 points)
 - +10 points for Flushing Program
 - +10 points for Pressure Testing
 - In areas with drafting points and dry hydrants: +20 points for drafting with a pumper and back-flushing dry hydrants
- No deductions based on hydrant conditions
- 25% deduction for incomplete records and 100% deduction for no records

Water Supply

Previous Schedule – Hydrant Flow Testing

- No credit

New Schedule – Hydrant Flow Testing

- Main Capacity Test
- All hydrants once within a 5-year time frame for full credit (40/50 pts)
- Add 25% for hydrant marking program
- Reduce by 25% for incomplete records
- Reduce by 100% for no records of claimed flow testing

Water Supply

Previous Schedule – Hydraulic Water Modeling

- No credit

New Schedule – Hydrant Water Modeling

- A properly installed and calibrated hydraulic water distribution computer model that can produce static pressure and flow predictions at 20-psi residual pressure may be given credit in lieu of main capacity flow testing
- PIAL will continue to perform main capacity tests during ratings

Water Supply

QUESTIONS????

How to get your FREE copy of the New FSRS & LA Addendum!!

- Only FIRE CHIEFS may request a free copy of the New FSRS. Simply submit (via e-mail only) an ATTACHED request letter written on fire department letterhead to Blaine Rabe` at brabe@pial.org . The body of the letter must contain the chief's email address. PIAL will validate the requestor's status as Fire Chief and forward the request to ISO. ISO will email you a copy of the schedule.
- LA Addendum: Available as a free .pdf file that may be downloaded from the PIAL.org website. Departments without internet access may obtain a free printed copy of the LA Addendum ONLY by contacting Blaine or any other Municipal Field Representative at their e-mail address.