

The 2012 Fire Suppression Rating Schedule (FSRS)

Summary of Changes

March 21, 2017

How to Get a Copy of the FSRS

Only FIRE CHIEFS may request a free copy of the FSRS.

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.

Other Handy Documents

- Louisiana Addendum to the Fire Suppression Rating Schedule
 - Available as a free download from the PIAL Website or from any PIAL Field Rep
- Other Products Available at the PIAL Website:
 - Municipal Division
 - Hydrant Flow Rate Calculator
 - Tanker Delivery Estimator
 - Apparatus Inventory Information
 - FAQs
- AWWA Manuals 17 (Hydrants) & **32 (Hydraulic Modeling)**
- NFPA Standards

Why Change?

- Previous schedule copyrighted in 1980
- New schedule copyrighted 2012
 - Reflects the current recognized and accepted standards developed by national standards organizations;
 - Recognizes utilization of advanced technology and best practices in fire mitigation; and
 - Confirms the predictive capability of the evaluation and classification structure.

What Changed in Communications?

1980 FSRS		
Receiving & Handling Fire Alarms		
Item	Description	Max Points
414	Telephone Service	2
422	Operators	3
432	Dispatch Circuits	5
440	Fire Alarm Total	10

New FSRS		
Emergency Communications		
Item	Description	Max Points
414	Emergency Reporting	3
422	Telecommunicators	4
432	Dispatch Circuits	3
440	Communications Total	10

What Changed in Fire Department?

1980 FSRS		
Item	Description	Max Points
513	Engine Companies	10
523	Reserve Pumpers	1
532	Pump Capacity	5
549	Ladder/Service Co.	5
553	Reserve Ladder/Service	1
561	Distribution of Cos.	4
571	Personnel	15+
581	Training	9
Bonus	Public Fire Control	2
591	Fire Department Total	50+

New FSRS		
Item	Description	Max Points
513	Engine Companies	6
523	Reserve Pumpers	0.5
532	Pump Capacity	3
549	Ladder/Service Co	4
553	Reserve Ladder/Service	0.5
561	Deployment Analysis	10
571	Personnel	15+
581	Training	9
730	Operational Considerations	2
591	Fire Department Total	50+

What Changed in Water Supply?

1980 FSRS			New FSRS		
Item	Description	Max Points	Item	Description	Max Points
616	Supply System	35	616	Supply System	30
621	Hydrant Size, Type & Installation	2	621	Hydrant Size, Type & Installation	3
631	Hydrant Inspection & Condition	3	631	Inspection & Fire Flow Testing of Hydrants	7
640	Water Supply Total	40	640	Water Supply Total	40

Credits for Additional Items

1980 FSRS

New FSRS

Item	Description	Max Points
Bonus	Public Fire Control	2
	Total Additional Items	Part of Fire Department

Item	Description	Max Points
1000	Community Risk Reduction	5.5
	Total Additional Items	5.5

Net Effect

- Communications Credits Still Total 10 Points
- Fire Department Credits Still Total 50+ Points
- Water Supply Credits Still Total 40 Points
- **Community Risk Reduction is 5.5 points of (mostly) new credit**
- Divergence is still in play
 - Divergence is always a negative number

Credit Earned vs. PPC Class

Credit Earned	PPC Class
0 – 9.99	10
10 – 19.99	9
20 – 29.99	8
30 – 39.99	7
40 – 49.99	6

Credit Earned	PPC Class
50 – 59.99	5
60 – 69.99	4
70 – 79.99	3
80 – 89.99	2
90 and Above	1

Questions????

General Changes

- Section 105 – Calculations
 - **Credit is limited to 75pts of the points possible when only partial documentation of an item exists.**
 - **When no documentation of an item exists to substantiate an item being reviewed, no credit will be given.**
 - Exception: Section 530 - Pump Capacity: Credit is limited to **75%** of the rated capacity if partial test data is available and to **50%** of the rated capacity if no test data is available.

General Changes

- Section 201 – Schedule Application
 - Minimum pump capacity for Class 1-8 departments is **increased from 250 gpm to 750 gpm** for at least one pumper.
 - Minimum pump capacity for Class 9 (D.O.) (Dwellings Only) is **increased from 50 gpm to 250 gpm**.
 - The minimum water tank capacity on a pumper for Class 9 (D.O.) **decreased from 300 gallons to 200 gallons**.
 - The minimum amount of water required to be delivered for Class 9 (D.O.) areas **increases from 300 gallons to 500 gallons**.

Communications Changes

- Section 400 – General (Formerly Receiving and Handling Fire Alarms):
 - **Shift in emphasis to a performance based standards**
- Section 410 – Emergency Reporting (Formerly Telephone Service):
 - **Emphasis changed to an evaluation of the type of 9-1-1 system used to take emergency calls and the level of sophistication of the system in regard to its ability to handle differing types of calls.**

Communications Changes

- Section 410 – (continued):
 - **The following items were eliminated:**
 - **Criteria for the number of needed emergency and business lines**
 - **Call progression (rollover)**
 - **Telephone directory listings**
 - **Recording device (for incoming calls)**

Communications Changes

- Section 420 – Telecommunicators (Formerly Number of Needed Operators)
 - **Emphasis shifted to quality of telecommunicators**
- Areas evaluated:
 - Call Answering and Processing Times
 - **Training and certification**
 - **Continuing Education**
 - **Quality Assurance**
 - **Emergency Dispatch Protocols including pre-arrival instructions**

Communications Changes

- Section 430 – Dispatch Circuits
 - **Eliminated credit for dispatch recording facilities at the communications center.**
 - **Increased credit for Manual-Start Generators...same as Auto-Start now**
 - **Added credit for UPS when used in combination with an automatically- or manually-started emergency generator**
 - **EPSS should be inspected weekly and tested under load for a minimum of 30-minutes per month (tests must be recorded for credit to be awarded)**

Questions????

Fire Department Changes

- Section 507 – Automatic Aid:
 - Includes better description of Automatic Aid
 - **Clarifies that Automatic Aid is a consideration throughout the schedule**
 - **Calculation of the Automatic Aid Factor increased from 0.90 to 1.00**
 - **Automatic Aid manpower may be creditable even if automatic aid is not needed by the graded area**
 - **Prorated based on % of the graded area that the AA responds to**

Fire Department Changes

- Section 510 – Engine Companies
 - **Credit for Engine Companies decreased from 10 points to 6 points to reflect a shift in emphasis from the number of apparatus and the equipment carried to the placement of those apparatus (Deployment Analysis)**

Fire Department Changes

- Section 511 – Number of Existing Engine Companies
 - Distribution: All station locations housing an in-service pumper
 - Operations: All pumpers used during the graded year as a necessary part of a 1- or 2-engine response (depending on basic fire flow) are considered Needed and Existing
 - Basic Fire Flow (BFF): the 5th highest Needed Fire Flow (NFF)
 - Under 1250 gpm: 1 engine
 - 1250- 3000 gpm: 2 engines
 - Over 3000 gpm: 3 engines
- **No longer requiring additional stations based on hydrant distribution or built-upon area**

Fire Department Changes

- Section 512 – Equipment on Existing Engine Companies
 - Pump and Hose Requirements
 - **Although 750 gpm is the minimum, only pumps rated at 1,000 gpm or higher will receive max credit**
 - **Up to 1,000' of 2.5" or Larger Supply Line**
 - **Up to 200' of 2.0", 2.5", or 3" Attack Line**
 - **Spare hose no longer creditable**
 - **Booster Reel no longer creditable**

Fire Department Changes

- Section 512 – Equipment on Existing Engine Companies (con't)
 - Carried Equipment:
 - **Points Decreased From 654 to 600 for Each Engine**
 - **Credit Added for Soft- or Hard-Suction Hose**
 - **Distributing Nozzle is No Longer Creditable**
 - **Foam Nozzle is No Longer Creditable**
 - **Foam is No Longer Creditable**
 - **2-½" Solid Stream Nozzle (reduced to 1 with 1", 1-⅛", and 1-¼" tips)**
 - **2-½" Combination Nozzle (reduced to 1)**
 - **Burst Hose Jacket is No Longer Creditable**
 - **Roof Ladder Now 12'-16' (was 12' to 14')**
 - **Pump & Hose Test Intervals Will be Rounded up to Next Higher Year**

Fire Department Changes

- Section 523 – Credit for Reserve Pumpers
 - Same 1 to 8 ratio as before
 - **Assessed the same as in-service pumpers**
 - **You either have them or you don't....**
 - May be shared between communities

Fire Department Changes

- Section 540 – Ladder/Service Companies
 - **Weighting decreased from 5 points to 3 points to reflect a shift in emphasis from the number of apparatus and equipment carried to the placement of those apparatus (Deployment Analysis)**

Fire Department Changes

- Section 542 – Equipment on Service Trucks

- Carried Equipment:

- **Large Spray Nozzle (now creditable only on ladder companies)**
- **SCBA (reduced to 4)**
- **Spare SCBA Bottles (reduced to 4)**
- **Smoke Ejector ($\geq 5,000$ cfm...provide documentation if not marked)**
- **Electric Generator (3kW minimum...may use no more than 2 generators totaling ≥ 3 kW)**
- **Pike Poles (changed from six pike poles of varying length to two that are 3' to 4', and four that are 6' or longer)**
- **Extension Ladder $\geq 24'$ Added**
- **Roof Ladder $\geq 16'$ added**

Fire Department Changes

- Section 542 – Equipment on Ladder Trucks
 - Carried Equipment:
 - **Changes Made for Service Trucks also Apply to Ladder Trucks as All Equipment Required on a Service Truck is Also Needed on a Ladder Truck**
 - **Large Spray Nozzle (moved to ladder truck & increased to 1,000gpm)**
 - **20' Roof Ladder changed to 16' Roof Ladder or Longer**
 - **40' Extension Ladder Changed to 35' Extension Ladder**

Fire Department Changes

- Section 553 – Credit for Reserve Ladder and Service Trucks
 - **Assessed the same as in-service apparatus**
 - **You either have them or you don't....**
 - May be shared between communities

Fire Department Changes

- Section 560 – Deployment Analysis (Formerly Distribution of Companies)
 - **Weighting increased from 4 points to 10 points to reflect the shift in emphasis from apparatus and equipment carried to placement of that apparatus**
 - **Hydrant counts are no longer considered**
 - **“Built-upon” area is no longer considered**

Fire Department Changes

- Section 560 – Deployment Analysis – How it Works
 - **All areas will receive a road-mile distribution study**
 - **The % of road miles within 1.5 road miles of engine company locations is compared to the % of alarms on which the graded area met NFPA 1710 response times for the 1st arriving pumper. Credit is based on whichever earns the most credit.**
 - **The % of road miles within 2.5 road miles of service and/or ladder company locations is compared to the % of alarms on which the graded area met NFPA 1710 response times for the 2nd arriving pumper and ladder and/or service truck. Credit is based on whichever earns the most credit.**

Fire Department Changes

- Section 570 – Existing Company Personnel
 - Clarified definitions regarding who and when firefighters are consider as “On-Duty”
 - Credit available for:
 - On-Duty Firefighters at Fire Stations
 - Public Safety Officers (50pts credit)
 - On-Call/Off-Duty Firefighters (33pts credit)
 - Automatic Aid Firefighters (Depends on AA Factor)
 - Special Apparatus (Squads, Rescue Units, etc...)
 - **All personnel must have a protective clothing ensemble available to them while on the fire scene.**

Fire Department Changes

- Section 580 – Training
 - Credit for training is for structure fire-related subjects only
 - Credit for Training Facilities:
 - **Live fire training structure including smoke room** **17 points**
 - **Drill tower at least 3 stories in height** **10 points**
 - **Training area at least 2.0 acres in size** **8 points**
 - **Hours for drills (training done at a valid training facility) decreased from 24 to 18 hours per member per year**

Fire Department Changes

- Section 580 – Training (continued)
 - **Company training (training done at fire stations or using streets, buildings, and open areas) requirement reduced from 20 hours to 16 hours per member per month.**
 - **Officer training decreased from 15 points to 12 points.**
 - **Divided equally between Officer Certification and Recurring Training.**

Fire Department Changes

- Section 580 – Training (continued)
 - New Driver training hours required for full credit **increased from 40 hours per member to 60.**
 - Hazmat training hours required for full **credit increased from 3 hours per member per year to 6.**
 - Should focus on Hazmat Identification
 - Pre-fire Planning frequency **changed from semi-annual to annual** inspections for full credit.
 - **The number of members credited as responding on working fires will be capped to the number of members receiving at least 12 hours of fire suppression related training during the graded year.**

Operational Considerations

- **Section 710 – Credit for Standard Operating Procedures**
 - Focus is on structural fire operations
 - Limited to SOPs directly related to the FSRS
 - Must be reviewed within 5-years of grading
- **Credit for Incident Management System**
 - Credit available for establishment of an Incident Management System
 - Minimum required is ICS-100 or equivalent
 - Must be within 5-years of grading

Questions????

Water Supply Changes

- Section 613 – Main Capacity
 - **Added an option to accept the results of a properly balanced and tested hydraulic water system model in lieu of actual fire hydrant flow test results.**
- Section 614 – Hydrant Distribution
 - **Increased credit for each standard hydrant within 1,000' of the NFF from 1,000 gpm to 1,500 gpm.**
 - **Eliminated varying credit based on distance hydrant was from the NFF building.**

Water Supply Changes

- Section 620 – Hydrants – Size, Type and Installation
 - **Eliminated deductions for:**
 - **Different direction of hydrant operating nuts**
 - **Different hose threads**
 - **Different size operating nuts**

Water Supply Changes

- Section 630 – Inspection and Fire Flow Testing of Hydrants (Formerly Inspection and Condition of Hydrants)
 - **Points for inspection frequency and completeness were modified**
 - **Deduction for lack of inspection records was revised to allow no credit for inspections that are not recorded.**
 - **Minimum credit for inspections completed with a frequency of 5 years or more was eliminated.**

Water Supply Changes

- Section 630 – Inspection and Fire Flow Testing of Hydrants (continued)
 - **Credit now offered specifically for fire flow testing.**
 - **Credit for use of a properly installed and calibrated hydraulic water system model in lieu of a comprehensive fire-flow testing program was added.**
 - **Credit for a hydrant marking program was added.**

Questions????

Community Risk Reduction

This is a new section that includes all of what PIAL has previously offered as “bonus” credit in their “Credit for Public Fire Control Programs” and more....

Community Risk Reduction

Credits are Divided into 3 Areas:

1. Section 1020
Fire Prevention 40% (2.2 points)

NOTE: Section 1020 credits are only available to those agencies for whom the LA OSFM has identified to PIAL as having “Recognized Fire Prevention Bureaus”

2. Section 1030
Public Fire Safety Education 40% (2.2 points)
3. Section 1040
Fire Investigations 20% (1.1 points)

Community Risk Reduction-Fire Prevention

Section 1020 – Credit Areas (40 points possible)

- **Code Adoption & Enforcement** 10 pts
- **Staffing** 8 pts
- **Certification** 3 pts
- **Continuing Education** 3 pts
- **Plan Reviews** 6 pts
- **Residential Certificates of Occupancy** 2 pts
- **Commercial Certificates of Occupancy** 2 pts
- **QA for Fire Inspection Programs** 1 pts
- **Code Compliance Follow-Up** 1 pts
- **Inspection of Private Fire Protection Equipment** 1 pts
- **Fire Prevention Ordinances** 2 pts
- **Coordination with Pre-Planners** 1 pts

Community Risk Reduction-Public Fire Safety Ed.

Section 1030 – Credit Areas (40 points possible)

- **Public Fire Safety Educator's Fire Safety Education Course** **5 pts**
- **Public Fire Safety Educator's Continuing Education** **5 pts**
- **Residential Fire Safety Programs** **10 pts**
- **Fire Drills in Pre-K thru 12th Grade Schools** **5 pts**
- **Classroom Instruction in Pre-K thru 3rd Grades** **5 pts**
- **Juvenile Firesetter Intervention Program** **5 pts**
- **Fire Safety Ed for Occupancies Having Large Loss Potential** **5 pts**

Community Risk Reduction-Fire Investigations

Section 1040 – Credit Areas (20 points possible)

- **Fire Investigation Organization** **4 pts**
- **Fire Investigation Staffing** **4 pts**
- **Fire Investigator Certification** **3 pts**
- **Fire Investigator Continuing Education** **3 pts**
- **Use of LFIRS** **6 pts**

Community Risk Reduction

- Section 1040 – Fire Investigation

- Credits based on:

- Establishment of authority to conduct and enforce fire investigations
- Number and qualifications of fire investigators
- Activities of the fire investigation staff
- Use of National Fire Incident Reporting System

Community Risk Reduction

- Section 1040 – Fire Investigation
 - ALL structural fires should have a documented investigation to determine cause and origin
 - NFRS (LIFRS) reporting is based on 3 years as it's done now

Questions????

Miscellaneous Topics

- Credit for IFSAC Certifications
 - List of Creditable Certifications is in the Addendum
 - **Equivalent ProBoard certifications are creditable**
 - **3-Year “Recency Rule” has been eliminated**
 - **Date of the certification is not an issue**
 - **Certified members must receive 45 hours of Company training during the graded year at the department they belong to in order to be counted for bonus credit**

Miscellaneous Topics

- Consultants

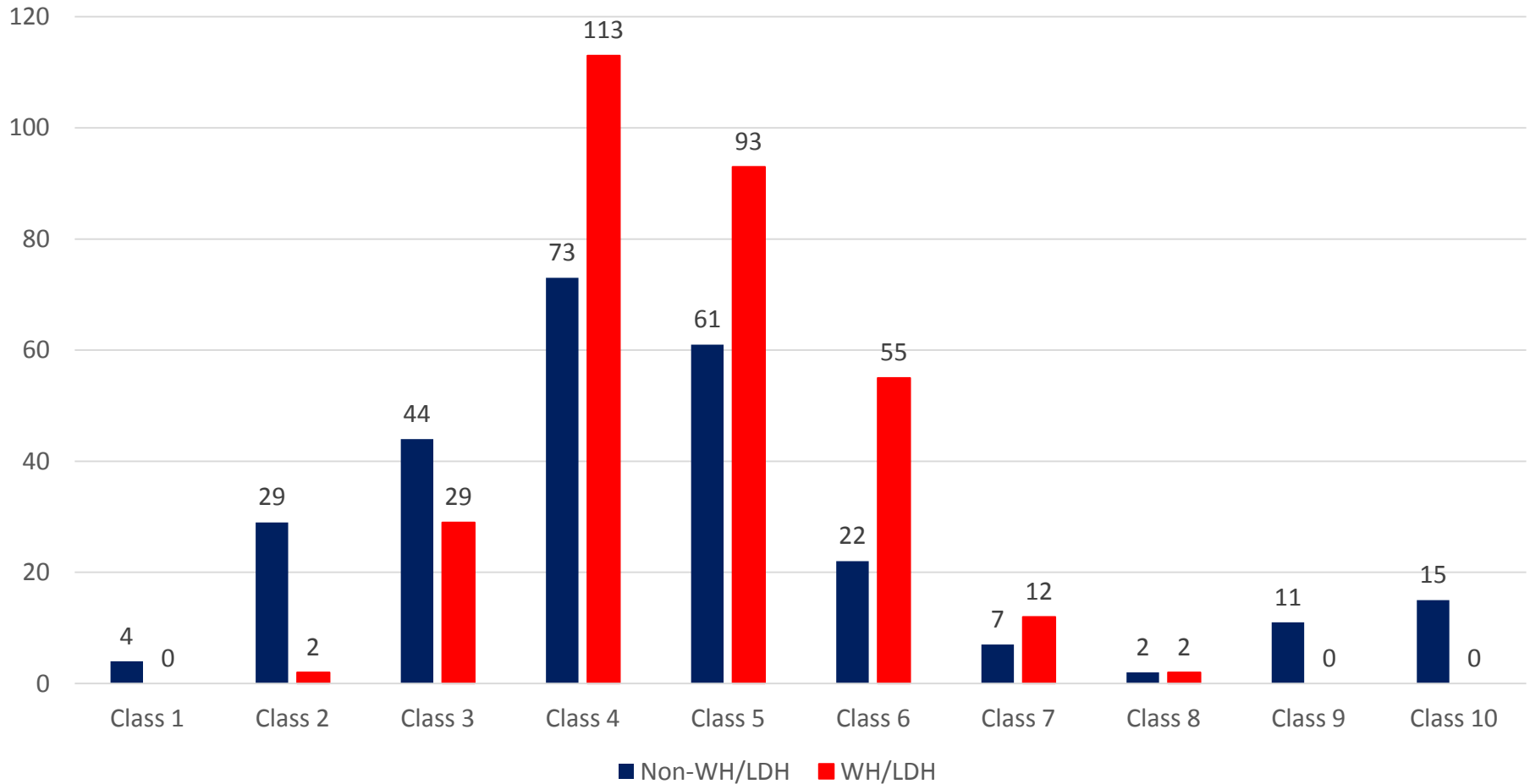
- It is up to each graded area to determine if they need a rating consultant
- PIAL needs a letter from the chief or AHJ before we can interact with their consultant
- PIAL's interaction with a consultant ends 180 days after the date the chief's letter is received by PIAL
- PIAL offers a "Professional Grading Assistance Program (PGAP)"
 - Help understanding the FSRS and Addendum
 - Help understanding the questionnaire

Miscellaneous Topics

- Water Hauling
 - A new Apparatus Line-Up form is being used by PIAL
 - Easier to use
- Virtual model is still being used
- Credit is based on average creditable delivery rate
- The 85% rule is still in effect
 - 85% of the road miles in the graded area must be within 7 road miles of a WH demo site

Miscellaneous Topics

State-Wide PPC Class Distribution
(as of Jan 1, 2017)



Questions????

This presentation will be posted to the www.pial.org website under the Municipal Division