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PUBLIC SERVICE
COMMISSION

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January 30, 2015

VIA HAND DELIVERY

Mr. Jeff R. Derouen Executive Director Kentucky Public Service Commission 211 Sower Boulevard Frankfort, Kentucky 40602

Re: Jessamine-South Elkhorn Water District CPCN Application

Case No. 2014-00084

Dear Mr. Derouen:

Delivered under cover of this letter is an original and ten (10) copies of Jessamine-South Elkhorn Water District's Supplemental Response to Forest Hills Residents' Association, Inc.'s First Requests for Information.

The District fully acknowledges that the filing of this supplemental information is very close in time to the hearing date. For this reason, an explanation as to the circumstances of the timing of this filing should be made. The existence of the Insurance Services Office, Inc. Summary Report of September 2014 ("Report") was unknown to the Board of Commissioners of the District and its counsel until January 28, 2015 and a copy of the Report was not made available to counsel until the afternoon of the next day. Once received, the Report was emailed to all counsel involved by email shortly after being received.

After the existence of the Report became known to the District's counsel, further investigation revealed that it had been received several months before this disclosure by the District's consulting engineer. Said engineer did not understand the importance of disclosing the Report in more a timely fashion. The Report has a September 2014 date on its cover page, but it was not actually sent to the Jessamine County Fire Chief by mail until September 29, 2014, who in turn made a copy available to the engineer some time thereafter. Also, the effective date of the Report is January 1, 2015 It is important to note that the District's Project Engineer prepared and filed his testimony and recommendations concerning fire protection in March, 2014, long before the issuance of the report.

Mr. Jeff R. Derouen January 30, 2015 Page Two

The District believes that this Report contains information that is not only relevant to its Application, but important to the Kentucky Public Service Commission's consideration of this Application since the Report's findings with respect to fire protection water needs in Jessamine County are very relevant to the issue of the need for the subject elevated water storage tank. However, the District also fully understands and appreciates that the filing of the Report at this time could place the Intervenor, Commission staff and the Attorney General's office at a disadvantage in preparing for the hearing on February 10, 2015. Therefore, the District will not object to and will join in requesting a continuance from the PSC of the hearing date in the event the other parties to this Application determine that it is in their best interest to request a postponement for the purpose of reviewing this document.

Sincerely,

Bruce E. Smith

Enclosure

cc: Robert M. Watt, III, Esq. Monica H. Braun, Esq. Jennifer Black Hans, Esq. Gregory T. Dutton, Esq. Stefanie Kingsley, Esq. Ann Ramser, Esq.

COMMONWEALTH OF KENTUCKY





In the Matter of:

APPLICATION OF JESSAMINE-SOUTH ELKHORN)	
WATER DISTRICT FOR A CERTIFICATE OF)	
PUBLIC CONVENIENCE AND NECESSITY TO)	
CONSTRUCT AND FINANCE A WATERWORKS)	CASE NO 2014-00084
IMPROVEMENTS PROJECT PURSUANT TO KRS)	
278.020 AND 278.300)	

JESSAMINE-SOUTH ELKHORN WATER DISTRICT'S SUPPLEMENTAL RESPONSE TO FOREST HILLS RESIDENTS' ASSOCIATION, INC.'S FIRST REQUESTS FOR INFORMATION

Comes the Jessamine-South Elkhorn Water District ("Water District"), by counsel, and for its Supplemental Response to the First Requests for Information from the Forest Hills Residents' Association, Inc. ("Forest Hills", or "Residents' Association"), answer as follows:

Facts, documents and things now known may be imperfectly understood and, accordingly, such facts, documents, and things may not be included in the following responses. The Water District reserves the right to reference, discover, or offer into evidence at a later time any and all facts, documents and things notwithstanding the initial responses and objections interposed herein. The Water District also reserves the right to reference, discover, or offer into evidence at a later time any and all facts, documents, and things that it does not presently recall but may recall at some time in the future.

GENERAL OBJECTIONS

1. The Water District objects to Forest Hills' Requests on the grounds that it seeks disclosure of information protected by the attorney-client, work product, and any other

applicable privileges. To the extent that The Water District inadvertently discloses information that may arguably be protected from discovery under attorney-client privilege, the work product doctrine, or any other applicable privilege, such inadvertent disclosure does not constitute a waiver of any such privilege.

- 2. The Water District objects to Forest Hills' Requests insofar as they seek information concerning matters unrelated to the subject matter of this proceeding, on the grounds that they are overly broad, unduly burdensome, and seek information that is neither relevant to the subject matter of this proceeding nor reasonably calculated to lead to discovery of admissible evidence.
- 3. The Water District objects to Forest Hills' Requests insofar as they seek confidential proprietary and/or trade secret information of the Water District that, if disclosed, could irreparably harm the Water District. Accordingly, the Water District objects to producing any such information absent entry of an appropriate Protective Order.
- 4. The Water District objects to Forest Hills' Requests on the grounds that they are not limited in time frame and are overly broad and unduly burdensome because they are more than inclusive of the time period at issue at this case.
- 5. The Water District objects to Forest Hills' Requests to the extent that they call for information or documents that are not currently in the Water District's possession, custody or control or that are currently filed in the record.
- 6. The responses set forth below are made without in any manner waiving (1) the right to object to the use of any response for any purpose, in this proceeding or any other action, on the grounds of privilege, relevance, materiality, or any other appropriate grounds: (2) the right to object to any other documents requests involving or relating to the subject matter of the

responses herein; and (3) the right to revise, correct, supplement or clarify any of the responses provided below, at any time.

- 7. The District objects to the "Instructions" provided by Forest Hills to the extent that such instructions exceed, modify or present additional instructions to those stated by the Commission in its Order of September 26, 2014 or those contained in applicable Commission statutes or regulations.
- 8. The District further objects generally to Forest Hills' Requests in that they are overly broad, unduly burdensome and will result in unjustifiable expense and delay in this proceeding. In addition, numerous requests seek information with respect to tangential issues that were already fully explored in Case No. 2012 -00470, the record of which has already been incorporated by reference into this proceeding at the request of the District. The District continues to object to any effort on the part of Forest Hills to re-litigate its siting complaint, which the PSC has already determined in Case No. 2012-00470 is not a primary issue in a water tank CPCN application. The requests are also objectionable to the extent that they seek compilations of lists of privileged communications, and seek masses of documents without sufficiently identifying the nature of the documents sought or the purpose of the request with respect to this application.

The General Objections are applicable to each and every one of the following responses and objections, and failure to repeat an objection in response to a specific request shall not be deemed a waiver of the objection. Further, when The Water District specifically repeats one or more of these General Objections in response to a specific request, such specific request cannot be a waiver of these General Objections.

Subject to and without waiving these General Objections, and subject to and without

waiving the specific objections noted below, the Water District responds as follows to Forest Hills' Requests for Information in accordance with the Water District's understanding of the fair meaning of those Requests. The respondent or witness for each Response will be shown in bold-faced type following the Response or that portion of the Response for which the individual is responsible.

RESPONSES TO REQUESTS FOLLOW ON THE NEXT PAGE

KPSC Case No. 2014 - 00084

Forest Hills' Requests for Information

Served September 26, 2014

Request No. 33

Page 5 of 7

Jessamine-South Elkhorn Water District

<u>Information Request No. 33:</u> Please provide all documents relating to fire protection

that the District sent to or received from fire underwriter's organizations, Insurance Services

Office or the Fire Insurance Rating office in Kentucky since December 1, 2012.

Answer: See attached Insurance Services Organization, Inc. ("ISO") document

which was received by Applicant's counsel on January 29, 2015.1 The effective date of the

document, according to ISO, was earlier this month on January 1, 2015. Counsel also states

that he only learned yesterday that the document attached is proprietary and is not

available to the public, including the Applicant. The document is only distributed to certain

designated Jessamine County governmental and fire officials who then have the discretion

to provide information to others of their choosing.

[John G. Horne and Applicant's Counsel]

¹ The document attached was emailed to Intervenor's counsel, the Attorney General's office and Commission Staff

counsel on January 29, 2015 soon after receipt by Applicant's counsel.

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VERIFICATION

The undersigned being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief.

Bruce E. Smith, Water District Counsel

COMMONWEALTH OF KENTUCKY COUNTY OF JESSAMINE, SCT...

Acknowledged, subscribed and sworn to me, a Notary Public in and before said County and State by Bruce E. Smith, this the <u>30</u> day of January, 2015.

NOTARY PUBLIC

Respectfully submitted,

Anthony G. Martin, Esq. P.O. Box 1812 Lexington, KY 40588

and

Bruce E. Smith, Esq. Henry E. Smith, Esq. 201 South Main Street Nicholasville, Kentucky 40356

CO-COUNSEL FOR DISTRICT

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Jessamine-South Elkhorn Water District's Supplemental Responses to Forest Hills Residents' Association, Inc.'s First Requests for Information with exhibits was served by first class mail, postage prepaid and by e-mail, this the 30th day of January, 2015, to:

Robert M. Watt, III, Esq. Monica H. Braun, Esq. Stoll Keenon Ogden, PLLC 300 West Vine Street, Ste. 2100 Lexington, KY 40507-1801 robert.watt@skofirm.com monica.braun@skofirm.com Jennifer Black Hans, Esq.
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BRUCE E. SMITH

g:\...\JSEWD\Forest Hills\ 2d Certificate Proceeding\2d Supp Responses to FH First Set of Req. FINAL

Public Protection Classification Summary Report

Jessamine CO FD

KENTUCKY

Prepared by

Insurance Services Office, Inc. 4B Eves Drive, Suite 200 P.O. Box 961 Marlton, New Jersey 08053-3112 (856) 985-5600

September 2014

Background Information

Introduction

ISO collects and evaluates information from communities in the United States on their structure fire suppression capabilities. The data is analyzed using our Fire Suppression Rating Schedule (FSRSTM) and then a Public Protection Classification (PPCTM) number is assigned to the community. The surveys are conducted whenever it appears that there is a possibility of a classification change. As such, the PPC program provides important, up-to-date information about fire protection services throughout the country.

The Fire Suppression Rating Schedule (FSRS) recognizes fire protection features only as they relate to suppression of first alarm structure fires. In many communities, fire suppression may be only a small part of the fire department's overall responsibility. ISO recognizes the dynamic and comprehensive duties of a community's fire service, and understands the complex decisions a community must make in planning and delivering emergency services. However, in developing a community's Public Protection Classification, only features related to reducing property losses from structural fires are evaluated. Multiple alarms, simultaneous incidents and life safety are not considered in this evaluation. The PPC program evaluates the fire protection for small to average size buildings. Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual classification.

A community's investment in fire mitigation is a proven and reliable predictor of future fire losses. Statistical data on insurance losses bears out the relationship between excellent fire protection – as measured by the PPC program – and low fire losses. So, insurance companies use PPC information for marketing, underwriting, and to help establish fair premiums for homeowners and commercial fire insurance. In general, the price of fire insurance in a community with a good PPC is substantially lower than in a community with a poor PPC, assuming all other factors are equal.

ISO is an independent company that serves insurance companies, communities, fire departments, insurance regulators, and others by providing information about risk. ISO's expert staff collects information about municipal fire suppression efforts in communities throughout the United States. In each of those communities, ISO analyzes the relevant data and assigns a Public Protection Classification – a number from 1 to 10. Class 1 represents an exemplary fire suppression program, and Class 10 indicates that the area's fire suppression program does not meet ISO's minimum criteria.

ISO's PPC program evaluates communities according to a uniform set of criteria, incorporating nationally recognized standards developed by the National Fire Protection Association and the American Water Works Association. A community's PPC depends on:

- Needed Fire Flows, which are representative building locations used to determine the theoretical amount of water necessary for fire suppression purposes.
- Emergency Communications, including emergency reporting, telecommunicators, and dispatching systems.
- > Fire Department, including equipment, staffing, training, geographic distribution of fire companies, operational considerations, and community risk reduction.
- > Water Supply, including inspection and flow testing of hydrants, alternative water supply operations, and a careful evaluation of the amount of available water compared with the amount needed to suppress fires up to 3,500 gpm.

Data Collection and Analysis

ISO has evaluated and classified over 48,000 fire protection areas across the United States using its Fire Suppression Rating Schedule (FSRS). A combination of meetings between trained ISO field representatives and the dispatch center coordinator, community fire official, and water superintendent is used in conjunction with a comprehensive questionnaire to collect the data necessary to determine the PPC number. In order for a community to obtain a classification better then a Class 9, three elements of fire suppression features are reviewed. These three elements are Emergency Communications, Fire Department, and Water Supply.

A review of the **Emergency Communications** accounts for 10% of the total classification. This section is weighted at **10 points**, as follows:

•	Emergency Reporting	3 points
•	Telecommunicators	4 points
•	Dispatch Circuits	3 points

A review of the **Fire Department** accounts for 50% of the total classification. ISO focuses on a fire department's first alarm response and initial attack to minimize potential loss. The fire department section is weighted at **50 points**, as follows:

•	Engine Companies	6 points
	Reserve Pumpers	0.5 points
	Pump Capacity	3 points
•	Ladder/Service Companies	4 points
	Reserve Ladder/Service Trucks	0.5 points
	Deployment Analysis	10 points
•	Company Personnel	15 points
	Training	9 points
•	Operational considerations	2 points
	Community Risk Reduction	5.5 points (in addition to the 50 points above)

A review of the **Water Supply** system accounts for 40% of the total classification. ISO reviews the water supply a community uses to determine the adequacy for fire suppression purposes. The water supply system is weighted at 40 points, as follows:

•	Credit for Supply System	30 points
•	Hydrant Size, Type & Installation	3 points
•	Inspection & Flow Testing of Hydrants	7 points

There is one additional factor considered in calculating the final score - Divergence.

Even the best fire department will be less than fully effective if it has an inadequate water supply. Similarly, even a superior water supply will be less than fully effective if the fire department lacks the equipment or personnel to use the water. The FSRS score is subject to modification by a divergence factor, which recognizes disparity between the effectiveness of the fire department and the water supply.

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

Public Protection Classification Number

The PPC number assigned to the community will depend on the community's score on a 100-point scale:

PPC	Points
1	90.00 or more
2	80.00 to 89.99
3	70.00 to 79.99
4	60.00 to 69.99
5	50.00 to 59.99
6	40.00 to 49.99
7	30.00 to 39.99
8	20.00 to 29.99
9	10.00 to 19.99
10	0.00 to 9.99

The classification numbers are interpreted as follows:

- Class 1 through (and including) Class 8 represents a fire suppression system that includes an FSRS creditable dispatch center, fire department, and water supply.
- Class 8B is a special classification that recognizes a superior level of fire
 protection in otherwise Class 9 areas. It is designed to represent a fire protection
 delivery system that is superior except for a lack of a water supply system
 capable of the minimum FSRS fire flow criteria of 250 gpm for 2 hours.
- Class 9 is a fire suppression system that includes a creditable dispatch center, fire department but no FSRS creditable water supply.
- Class 10 does not meet minimum FSRS criteria for recognition, including areas that are beyond five road miles of a recognized fire station.

New Public Protection Classifications effective July 1, 2014

We have revised our Public Protection Classifications (PPC™) to capture the effects of enhanced fire protection capabilities that reduce fire loss and fire severity in Split Class 9 and Split Class 8B areas (as outlined below). This new structure benefits the fire service, community, and property owner.

New classifications

Through ongoing research and loss experience analysis, we identified additional differentiation in fire loss experience within our PPC program, which resulted in the revised classifications. We based the differing fire loss experience on the fire suppression capabilities of each community. The new classifications will improve the predictive value for insurers while benefiting both commercial and residential property owners. Here are the new classifications and what they mean.

Split classifications

When we develop a split classification for a community — for example 5/9 — the first number is the class that applies to properties within 5 road miles of the responding fire station and 1,000 feet of a creditable water supply, such as a fire hydrant, suction point, or dry hydrant. The second number is the class that applies to properties within 5 road miles of a fire station but beyond 1,000 feet of a creditable water supply. We have revised the classification to reflect more precisely the risk of loss in a community, replacing Class 9 and 8B in the second part of a split classification with revised designations.

What's changed with the new classifications?

We've published the new classifications as "X" and "Y" — formerly the "9" and "8B" portion of the split classification, respectively. For example:

- A community currently displayed as a split 6/9 classification will now be a split 6/6X classification; with the "6X" denoting what was formerly classified as "9".
- Similarly, a community currently graded as a split 6/8B classification will now be a split 6/6Y classification, the "6Y" denoting what was formerly classified as "8B".
- Communities graded with single "9" or "8B" classifications will remain intact.

Prior Classification	New Classification
1/9	1/1X
2/9	2/2X
3/9	3/3X
4/9	a/ax
5/9	5/5X
6/9	6/6X
7/9	7/7X
8/9	8/8X
9	9

Prior Classification	New Classification
1/88	1/17
2/8B	2/29
3/8B	3/37
4/88	4/44
5/88	5/5Y
6/88	6/6Y
7/88	7/78
8/88	8/8Y
88	8B

What's changed?

As you can see, we're still maintaining split classes, but it's how we represent them to insurers that's changed. The new designations reflect a reduction in fire severity and loss and have the potential to reduce property insurance premiums.

Benefits of the revised split class designations

- To the fire service, the revised designations identify enhanced fire suppression capabilities used throughout the fire protection area
- To the community, the new classes reward a community's fire suppression efforts by showing a more reflective designation
- To the individual property owner, the revisions offer the potential for decreased property insurance premiums

New water class

Our data also shows that risks located more than 5 but less than 7 road miles from a responding fire station with a creditable water source within 1,000 feet had better loss experience than those farther than 5 road miles from a responding fire station with no creditable water source. We've introduced a new classification —10W — to recognize the reduced loss potential of such properties.

What's changed with Class 10W?

Class 10W is property-specific. Not all properties in the 5-to-7-mile area around the responding fire station will qualify. The difference between Class 10 and 10W is that the 10W-graded risk or property is within 1,000 feet of a creditable water supply. Creditable water supplies include fire protection systems using hauled water in any of the split classification areas.

What's the benefit of Class 10W?

10W gives credit to risks within 5 to 7 road miles of the responding fire station and within 1,000 feet of a creditable water supply. That's reflective of the potential for reduced property insurance premiums.

What does the fire chief have to do?

Fire chiefs don't have to do anything at all. The revised classifications will change automatically effective July 1, 2014*.

What if I have additional questions?

Feel free to contact ISO at 800.444.4554 or email us at PPC-Cust-Serv@iso.com.

*The new classifications do not apply in Texas.

Distribution of Public Protection Classification Numbers

The 2014 published countrywide distribution of communities by the Public Protection Classification number is as follows:

Countrywide



Assistance

The PPC program offers help to communities, fire departments and other public officials as they plan for, budget, and justify improvements. ISO is also available to assist in the understanding of the details of this evaluation.

ISO Public Protection representatives can be reached by telephone at (800) 444-4554. The technical specialists at this telephone number have access to the details of this evaluation and can effectively speak with you about your PPC questions. What's more, we can be reached via the internet at www.isomitigation.com/talk/.

We also have a website dedicated to our Community Hazard Mitigation Classification programs at www.isomitigation.com. Here, fire chiefs, building code officials, community leaders and other interested citizens can access a wealth of data describing the criteria used in evaluating how cities and towns are protecting residents from fire and other natural hazards. This website will allow you to learn more about ISO's Public Protection Classification program. The website provides important background information, insights about the PPC grading processes and technical documents. ISO is also pleased to offer Fire Chiefs Online — a special secured website with information and features that can help improve your ISO Public Protection Classification, including a list of the Needed Fire Flows for all the commercial occupancies ISO has on file for your community. Visitors to the site can download information, see statistical results and also contact ISO for assistance.

In addition, on-line access to the Fire Suppression Rating Schedule and its commentaries is available to registered customers for a fee. However, fire chiefs and community chief administrative officials are given access privileges to this information without charge.

To become a registered fire chief or community chief administrative official, register at www.isomitigation.com.

Public Protection Classification

ISO concluded its review of the fire suppression features being provided for Jessamine CO FD. The resulting community classification is Class 05/5Y.

If the classification is a single class, the classification applies to properties with a Needed Fire Flow of 3,500 gpm or less in the community. If the classification is a split class (e.g., 6/XX):

- The first class (e.g., "6" in a 6/XX) applies to properties within 5 road miles of a recognized fire station and within 1,000 feet of a fire hydrant or alternate water supply.
- The second class (XX or XY) applies to properties beyond 1,000 feet of a fire hydrant but within 5 road miles of a recognized fire station.
- ➤ Alternative Water Supply: The first class (e.g., "6" in a 6/10) applies to properties within 5 road miles of a recognized fire station with no hydrant distance requirement.
- Class 10 applies to properties over 5 road miles of a recognized fire station.
- Class 10W applies to properties within 5 to 7 road miles of a recognized fire station with a recognized water supply within 1,000 feet.
- Specific properties with a Needed Fire Flow in excess of 3,500 gpm are evaluated separately and assigned an individual classification.

FSRS Feature	Earned Credit	Credit Available
Emergency Communications		
414. Credit for Emergency Reporting	3.00	3
422. Credit for Telecommunicators	4.00	4
432. Credit for Dispatch Circuits	1.50	3
440. Credit for Receiving and Handling Fire Alarms	8.50	10
Fire Department		
513. Credit for Engine Companies	5.94	6
523. Credit for Reserve Pumpers	0.50	0.50
532. Credit for Pump Capacity	3.00	3
549. Credit for Ladder Service	1.43	4
553. Credit for Reserve Ladder and Service Trucks	0.00	0.50
561. Credit for Deployment Analysis	2.42	10
571. Credit for Company Personnel	2.34	15
581. Credit for Training	5.11	9
730. Credit for Operational Considerations	2.00	2
590. Credit for Fire Department	22.74	50
Water Supply		
616. Credit for Supply System	22.43	30
621. Credit for Hydrants	2.95	3
631. Credit for Inspection and Flow Testing	4.16	7
640. Credit for Water Supply	29.54	40
Divergence	-5.67	
1050. Community Risk Reduction	2.80	5.50
Total Credit	57.91	105.50

Emergency Communications

Ten percent of a community's overall score is based on how well the communications center receives and dispatches fire alarms. Our field representative evaluated:

- · Communications facilities provided for the general public to report structure fires
- Enhanced 9-1-1 Telephone Service including wireless
- · Computer-aided dispatch (CAD) facilities
- · Alarm receipt and processing at the communication center
- Training and certification of telecommunicators
- Facilities used to dispatch fire department companies to reported structure fires

2:1	Earned Credit	Credit Available
414. Credit Emergency Reporting	3.00	3
422. Credit for Telecommunicators	4.00	4
432. Credit for Dispatch Circuits	1.50	3
Item 440. Credit for Emergency Communications:	8.50	10

Item 414 - Credit for Emergency Reporting (3 points)

The first item reviewed is Item 414 "Credit for Emergency Reporting (CER)". This item reviews the emergency communication center facilities provided for the public to report fires including 911 systems (Basic or Enhanced), Wireless Phase I and Phase II, Voice over Internet Protocol, Computer Aided Dispatch and Geographic Information Systems for automatic vehicle location. ISO uses National Fire Protection Association (NFPA) 1221, Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems as the reference for this section.

Item 410. Emergency Reporting (CER)	Earned Credit	Credit Available
A./B. Basic 9-1-1, Enhanced 9-1-1 or No 9-1-1 For maximum credit, there should be an Enhanced 9-1-1 system, Basic 9-1-1 and No 9-1-1 will receive partial credit.	20.00	20
Wireless Phase I using Static ALI (automatic location identification) Functionality (10 points); Wireless Phase II using Dynamic ALI Functionality (15 points); Both available will be 25 points	25.00	25
2. E9-1-1 Voice over Internet Protocol (VoIP) Static VoIP using Static ALI Functionality (10 points); Nomadic VoIP using Dynamic ALI Functionality (15 points); Both available will be 25 points	25.00	25
3. Computer Aided Dispatch Basic CAD (5 points); CAD with Management Information System (5 points); CAD with Interoperability (5 points)	15.00	15
4. Geographic Information System (GIS/AVL) The PSAP uses a fully integrated CAD/GIS management system with automatic vehicle location (AVL) integrated with a CAD system providing dispatch assignments.	15.00	15
Review of Emergency Reporting total:	100.00	100

Item 422- Credit for Telecommunicators (4 points)

The second item reviewed is Item 422 "Credit for Telecommunicators (TC)". This item reviews the number of Telecommunicators on duty at the center to handle fire calls and other emergencies. All emergency calls including those calls that do not require fire department action are reviewed to determine the proper staffing to answer emergency calls and dispatch the appropriate emergency response. NFPA 1221, Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems, recommends that ninety-five percent of emergency calls shall be answered within 15 seconds and ninety-nine percent of emergency calls shall be answered within 40 seconds. In addition, NFPA recommends that ninety percent of emergency alarm processing shall be completed within 60 seconds and ninety-nine percent of alarm processing shall be completed within 90 seconds of answering the call.

To receive full credit for operators on duty, ISO must review documentation to show that the communication center meets NFPA 1221 call answering and dispatch time performance measurement standards. This documentation may be in the form of performance statistics or other performance measurements compiled by the 9-1-1 software or other software programs that are currently in use such as Computer Aided Dispatch (CAD) or Management Information System (MIS).

Item 420. Telecommunicators (CTC)	Earned Credit	Credit Available
A1. Alarm Receipt (AR)	20.00	20
Receipt of alarms shall meet the requirements in accordance with the criteria of NFPA 1221		
A2. Alarm Processing (AP)	20.00	20
Processing of alarms shall meet the requirements in accordance with the criteria of NFPA 1221		
B. Emergency Dispatch Protocols (EDP)	20.00	20
Telecommunicators have emergency dispatch protocols (EDP) containing questions and a decision-support process to facilitate correct call categorization and prioritization.		
C. Telecommunicator Training and Certification (TTC)	20.00	20
Telecommunicators meet the qualification requirements referenced in NFPA 1061, Standard for Professional Qualifications for Public Safety Telecommunicator, and/or the Association of Public-Safety Communications Officials - International (APCO) Project 33. Telecommunicators are certified in the knowledge, skills, and abilities corresponding to their job functions.		
D. Telecommunicator Continuing Education and Quality Assurance (TQA)	20.00	20
Telecommunicators participate in continuing education and/or in-service training and quality-assurance programs as appropriate for their positions		
Review of Telecommunicators total:	100.00	100

Item 432 - Credit for Dispatch Circuits (3 points)

The third item reviewed is Item 432 "Credit for Dispatch Circuits (CDC)". This item reviews the dispatch circuit facilities used to transmit alarms to fire department members. A "Dispatch Circuit" is defined in NFPA 1221 as "A circuit over which an alarm is transmitted from the communications center to an emergency response facility (ERF) or emergency response units (ERUs) to notify ERUs to respond to an emergency". All fire departments (except single fire station departments with full-time firefighter personnel receiving alarms directly at the fire station) need adequate means of notifying all firefighter personnel of the location of reported structure fires. The dispatch circuit facilities should be in accordance with the general criteria of NFPA 1221. "Alarms" are defined in this Standard as "A signal or message from a person or device indicating the existence of an emergency or other situation that requires action by an emergency response agency".

There are two different levels of dispatch circuit facilities provided for in the Standard – a primary dispatch circuit and a secondary dispatch circuit. In jurisdictions that receive 730 alarms or more per year (average of two alarms per 24-hour period), two separate and dedicated dispatch circuits, a primary and a secondary, are needed. In jurisdictions receiving fewer than 730 alarms per year, a second dedicated dispatch circuit is not needed. Dispatch circuit facilities installed but not used or tested (in accordance with the NFPA Standard) receive no credit.

The score for Credit for Dispatch Circuits (CDC) is influenced by monitoring for integrity of the primary dispatch circuit. There are up to 0.90 points available for this Item. Monitoring for integrity involves installing automatic systems that will detect faults and failures and send visual and audible indications to appropriate communications center (or dispatch center) personnel. ISO uses NFPA 1221 to guide the evaluation of this item. ISO's evaluation also includes a review of the communication system's emergency power supplies.

Item 432 "Credit for Dispatch Circuits (CDC)" = 1.50 points

Fire Department

Fifty percent of a community's overall score is based upon the fire department's structure fire suppression system. ISO's field representative evaluated:

- · Engine and ladder/service vehicles including reserve apparatus
- Equipment carried
- Response to reported structure fires
- Deployment analysis of companies
- Available and/or responding firefighters
- · Training

	Earned Credit	Credit Available
513. Credit for Engine Companies	5.94	6
523. Credit for Reserve Pumpers	0.50	0.5
532. Credit for Pumper Capacity	3.00	3
549. Credit for Ladder Service	1.43	4
553. Credit for Reserve Ladder and Service Trucks	0.00	0.5
561. Credit for Deployment Analysis	2.42	10
571. Credit for Company Personnel	2.34	15
581. Credit for Training	5.11	9
581. Credit for Operational Considerations	2.00	2
Item 590. Credit for Fire Department:	22.74	50

Basic Fire Flow

The Basic Fire Flow for the community is determined by the review of the Needed Fire Flows for selected buildings in the community. The fifth largest Needed Fire Flow is determined to be the Basic Fire Flow. The Basic Fire Flow has been determined to be 3000 gpm.

Item 513 - Credit for Engine Companies (6 points)

The first item reviewed is Item 513 "Credit for Engine Companies (CEC)". This item reviews the number of engine companies, their pump capacity, hose testing, pump testing and the equipment camed on the in-service pumpers. To be recognized, pumper apparatus must meet the general criteria of NFPA 1901, Standard for Automotive Fire Apparatus which include a minimum 250 gpm pump, an emergency warning system, a 300 gallon water tank, and hose. At least 1 apparatus must have a permanently mounted pump rated at 750 gpm or more at 150 psi.

The review of the number of needed pumpers considers the response distance to built-upon areas; the Basic Fire Flow; and the method of operation. Multiple alarms, simultaneous incidents, and life safety are not considered.

The greatest value of A, B, or C below is needed in the fire district to suppress fires in structures with a Needed Fire Flow of 3,500 gpm or less: 3 engine companies

- a) 7 engine companies to provide fire suppression services to areas to meet NFPA 1710 criteria or within 1½ miles.
- b) 3 engine companies to support a Basic Fire Flow of 3000 gpm.
- c) 2 engine companies based upon the fire department's method of operation to provide a minimum two engine response to all first alarm structure fires.

The FSRS recognizes that there are 7 engine companies in service.

The FSRS also reviews Automatic Aid. Automatic Aid is considered in the review as assistance dispatched automatically by contractual agreement between two communities or fire districts. That differs from mutual aid or assistance arranged case by case. ISO will recognize an Automatic Aid plan under the following conditions:

- It must be prearranged for first alarm response according to a definite plan. It is preferable to have a written agreement, but ISO may recognize demonstrated performance.
- The aid must be dispatched to all reported structure fires on the initial alarm.
- The aid must be provided 24 hours a day, 365 days a year.

FSRS Item 512.D "Automatic Aid Engine Companies" responding on first alarm and meeting the needs of the city for basic fire flow and/or distribution of companies are factored based upon the value of the Automatic Aid plan (up to 1.00 can be used as the factor). The Automatic Aid factor is determined by a review of the Automatic Aid provider's communication facilities, how they receive alarms from the graded area, inter-department training between fire departments, and the fire ground communications capability between departments.

For each engine company, the credited Pump Capacity (PC), the Hose Carried (HC), the Equipment Carried (EC) all contribute to the calculation for the percent of credit the FSRS provides to that engine company.

Item 513 "Credit for Engine Companies (CEC)" = 5.94 points

Item 523 - Credit for Reserve Pumpers (0.50 points)

The item is Item 523 "Credit for Reserve Pumpers (CRP)". This item reviews the number and adequacy of the pumpers and their equipment. The number of needed reserve pumpers is 1 for each 8 needed engine companies determined in Item 513, or any fraction thereof.

Item 523 "Credit for Reserve Pumpers (CRP)" = 0.50 points

Item 532 - Credit for Pumper Capacity (3 points)

The next item reviewed is Item 532 "Credit for Pumper Capacity (CPC)". The total pump capacity available should be sufficient for the Basic Fire Flow of 3000 gpm. The maximum needed pump capacity credited is the Basic Fire Flow of the community.

Item 532 "Credit for Pumper Capacity (CPC)" = 3.00 points

Item 549 - Credit for Ladder Service (4 points)

The next item reviewed is Item 549 "Credit for Ladder Service (CLS)". This item reviews the number of response areas within the city with 5 buildings that are 3 or more stories or 35 feet or more in height, or with 5 buildings that have a Needed Fire Flow greater than 3,500 gpm, or any combination of these criteria. The height of all buildings in the city, including those protected by automatic sprinklers, is considered when determining the number of needed ladder companies. Response areas not needing a ladder company should have a service company. Ladders, tools and equipment normally carried on ladder trucks are needed not only for ladder operations but also for forcible entry, ventilation, salvage, overhaul, lighting and utility control.

The number of ladder or service companies, the height of the aerial ladder, aerial ladder testing and the equipment carried on the in-service ladder trucks and service trucks is compared with the number of needed ladder trucks and service trucks and an FSRS equipment list. Ladder trucks must meet the general criteria of NFPA 1901, Standard for Automotive Fire Apparatus to be recognized.

The number of needed ladder-service trucks is dependent upon the number of buildings 3 stories or 35 feet or more in height, buildings with a Needed Fire Flow greater than 3,500 gpm, and the method of operation.

The FSRS recognizes that there are **0 ladder companies** in service. These companies are needed to provide fire suppression services to areas to meet NFPA 1710 criteria or within 2½ miles and the number of buildings with a Needed Fire Flow over 3,500 gpm or 3 stories or more in height, or the method of operation.

The FSRS recognizes that there are 7 service companies in service.

Item 549 "Credit for Ladder Service (CLS)" = 1.43 points

Item 553 - Credit for Reserve Ladder and Service Trucks (0.50 points)

The next item reviewed is Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)". This item considers the adequacy of ladder and service apparatus when one (or more in larger communities) of these apparatus are out of service. The number of needed reserve ladder and service trucks is 1 for each 8 needed ladder and service companies that were determined to be needed in Item 540, or any fraction thereof.

Item 553 "Credit for Reserve Ladder and Service Trucks (CRLS)" = 0.00 points

Item 561 - Deployment Analysis (10 points)

Next, Item 561 "Deployment Analysis (DA)" is reviewed. This Item examines the number and adequacy of existing engine and ladder-service companies to cover built-upon areas of the city.

To determine the Credit for Distribution, first the Existing Engine Company (EC) points and the Existing Engine Companies (EE) determined in Item 513 are considered along with Ladder Company Equipment (LCE) points, Service Company Equipment (SCE) points, Engine-Ladder Company Equipment (ELCE) points, and Engine-Service Company Equipment (ESCE) points determined in Item 549.

Secondly, as an alternative to determining the number of needed engine and ladder/service companies through the road-mile analysis, a fire protection area may use the results of a systematic performance evaluation. This type of evaluation analyzes computer-aided dispatch (CAD) history to demonstrate that, with its current deployment of companies, the fire department meets the time constraints for initial arriving engine and initial full alarm assignment in accordance with the general criteria of in NFPA 1710, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments.

A determination is made of the percentage of built upon area within 1½ miles of a first-due engine company and within 2½ miles of a first-due ladder-service company.

Item 561 "Credit Deployment Analysis (DA)" = 2.42 points

Item 571 - Credit for Company Personnel (15 points)

Item 571 "Credit for Company Personnel (CCP)" reviews the average number of existing firefighters and company officers available to respond to reported first alarm structure fires in the city.

The on-duty strength is determined by the yearly average of total firefighters and company officers on-duty considering vacations, sick leave, holidays, "Kelley" days and other absences. When a fire department operates under a minimum staffing policy, this may be used in lieu of determining the yearly average of on-duty company personnel.

Firefighters on apparatus not credited under Items 513 and 549 that regularly respond to reported first alarms to aid engine, ladder, and service companies are included in this item as increasing the total company strength.

Firefighters staffing ambulances or other units serving the general public are credited if they participate in fire-fighting operations, the number depending upon the extent to which they are available and are used for response to first alarms of fire.

On-Call members are credited on the basis of the average number staffing apparatus on first alarms. Off-shift career firefighters and company officers responding on first alarms are considered on the same basis as on-call personnel. For personnel not normally at the fire station, the number of responding firefighters and company officers is divided by 3 to reflect the time needed to assemble at the fire scene and the reduced ability to act as a team due to the various arrival times at the fire location when compared to the personnel on-duty at the fire station during the receipt of an alarm.

The number of Public Safety Officers who are positioned in emergency vehicles within the jurisdiction boundaries may be credited based on availability to respond to first alarm structure fires. In recognition of this increased response capability the number of responding Public Safety Officers is divided by 2.

The average number of firefighters and company officers responding with those companies credited as Automatic Aid under Items 513 and 549 are considered for either on-duty or on-call company personnel as is appropriate. The actual number is calculated as the average number of company personnel responding multiplied by the value of AA Plan determined in Item 512.D.

The maximum creditable response of on-duty and on-call firefighters is 12, including company officers, for each existing engine and ladder company and 6 for each existing service company.

Chief Officers are not creditable except when more than one chief officer responds to alarms; then extra chief officers may be credited as firefighters if they perform company duties.

The FSRS recognizes 3.00 on-duty personnel and an average of 15.18 on-call personnel responding on first alarm structure fires.

Item 571 "Credit for Company Personnel (CCP)" = 2.34 points

Item 581 - Credit for Training (9 points)

Trai	ning	Earned Credit	Credit Available
	A. Facilities, and Use For maximum credit, each firefighter should receive 18 hours per month in structure fire related subjects as outlined in NFPA 1001.	35.00	35
	B. Company Training For maximum credit, each firefighter should receive 16 hours per month in structure fire related subjects as outlined in NFPA 1001.	11.25	25
	C. Classes for Officers For maximum credit, each officer should be certified in accordance with the general criteria of NFPA 1021. Additionally, each officer should receive 12 hours of continuing education on or off site.	0.00	12
	D. New Driver and Operator Training For maximum credit, each new driver and operator should receive 60 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.	2.00	5
	E. Existing Driver and Operator Training For maximum credit, each existing driver and operator should receive 12 hours of driver/operator training per year in accordance with NFPA 1002 and NFPA 1451.	2.50	5
	F. Training on Hazardous Materials For maximum credit, each firefighter should receive 6 hours of training for incidents involving hazardous materials in accordance with NFPA 472.	0.49	1
	G. Recruit Training For maximum credit, each firefighter should receive 240 hours of structure fire related training in accordance with NFPA 1001 within the first year of employment or tenure.	3.13	5
	H. Pre-Fire Planning Inspections For maximum credit, pre-fire planning inspections of each commercial, industrial, institutional, and other similar type building (all buildings except 1-4 family dwellings) should be made annually by company members. Records of inspections should include up-to date notes and sketches.	2.40	12

Item 580 "Credit for Training (CT)" = 5.11 points

Item 730 - Operational Considerations (2 points)

Item 730 "Credit for Operational Considerations (COC)" evaluates fire department standard operating procedures and incident management systems for emergency operations involving structure fires.

Operational Considerations	Earned Credit	Credit Available		
Standard Operating Procedures	50	50		
The department should have established SOPs for fire department general emergency operations				
Incident Management Systems		50		
The department should use an established incident management system (IMS)				
Operational Considerations total:	100	100		

Item 730 "Credit for Operational Considerations (COC)" = 2.00 points

Water Supply

Forty percent of a community's overall score is based on the adequacy of the water supply system. The ISO field representative evaluated:

- the capability of the water distribution system to meet the Needed Fire Flows at selected locations up to 3,500 gpm.
- size, type and installation of fire hydrants.
- inspection and flow testing of fire hydrants.

	Earned Credit	Credit Available
616. Credit for Supply System	22.43	30
621. Credit for Hydrants	2.95	3
631. Credit for Inspection and Flow Testing	4.16	7
Item 640. Credit for Water Supply:	29.54	40

Item 616 - Credit for Supply System (30 points)

The first item reviewed is Item 616 "Credit for Supply System (CSS)". This item reviews the rate of flow that can be credited at each of the Needed Fire Flow test locations considering the supply works capacity, the main capacity and the hydrant distribution. The lowest flow rate of these items is credited for each representative location. A water system capable of delivering 250 gpm or more for a period of two hours plus consumption at the maximum daily rate at the fire location is considered minimum in the ISO review.

Where there are 2 or more systems or services distributing water at the same location, credit is given on the basis of the joint protection provided by all systems and services available.

The supply works capacity is calculated for each representative Needed Fire Flow test location, considering a variety of water supply sources. These include public water supplies, emergency supplies (usually accessed from neighboring water systems), suction supplies (usually evidenced by dry hydrant installations near a river, lake or other body of water), and supplies developed by a fire department using large diameter hose or vehicles to shuttle water from a source of supply to a fire site. The result is expressed in gallons per minute (gpm).

The normal ability of the distribution system to deliver Needed Fire Flows at the selected building locations is reviewed. The results of a flow test at a representative test location will indicate the ability of the water mains (or fire department in the case of fire department supplies) to carry water to that location.

The hydrant distribution is reviewed within 1,000 feet of representative test locations measured as hose can be laid by apparatus.

For maximum credit, the Needed Fire Flows should be available at each location in the district. Needed Fire Flows of 2,500 gpm or less should be available for 2 hours; and Needed Fire Flows of 3,000 and 3,500 gpm should be obtainable for 3 hours.

Item 616 "Credit for Supply System (CSS)" = 22.43 points

Item 621 - Credit for Hydrants (3 points)

The second item reviewed is Item 621 "Credit for Hydrants (CH)". This item reviews the number of fire hydrants of each type compared with the total number of hydrants.

There are a total of 1129 hydrants in the graded area.

620. Hydrants, - Size, Type and Installation	Number of Hydrants
A. With a 6 -inch or larger branch and a pumper outlet with or without 2½ -inch outlets	1053
B. With a 6 -inch or larger branch and no pumper outlet but two or more 2½ -inch outlets, or with a small foot valve, or with a small barrel	76
C./D. With only a 2½ -inch outlet or with less than a 6 -inch branch	0
E./F. Flush Type, Cistern, or Suction Point	0

Item 621 "Credit for Hydrants (CH)" = 2.95 points

Item 630 - Credit for Inspection and Flow Testing (7 points)

The third item reviewed is Item 630 "Credit for Inspection and Flow Testing (CIT)". This item reviews the fire hydrant inspection frequency, and the completeness of the inspections. Inspection of hydrants should be in accordance with AVWVA M-17, Installation, Field Testing and Maintenance of Fire Hydrants.

Frequency of Inspection (FI): Average interval between the 3 most recent inspections.

Frequency	Points
1 year	30
2 years	20
3 years	10
4 years	5
5 years or more	No Credit

Note: The points for inspection frequency are reduced by 10 points if the inspections are incomplete or do not include a flushing program. An additional reduction of 10 points are made if hydrants are not subjected to full system pressure during inspections. If the inspection of cisterns or suction points does not include actual drafting with a pumper, or back-flushing for dry hydrants, 20 points are deducted.

Total points for Inspections = 3.20 points

Frequency of Fire Flow Testing (FF): Average interval between the 3 most recent inspections.

Frequency	Points
5 years	40
6 years	30
7 years	20
8 years	10
9 years	5
10 years or more	No Credit

Total points for Fire Flow Testing = 0.96 points

Item 631 "Credit for Inspection and Fire Flow Testing (CIT)" = 4.16 points

Divergence = -5.67

The Divergence factor mathematically reduces the score based upon the relative difference between the fire department and water supply scores. The factor is introduced in the final equation.

Community Risk Reduction

	Earned Credit	Credit Available
1025. Credit for Fire Prevention and Code Enforcement (CPCE)	0.46	2.2
1033. Credit for Public Fire Safety Education (CFSE)	1.32	2.2
1044. Credit for Fire Investigation Programs (CIP)	1.02	1.1
Item 1050. Credit for Community Risk Reduction	2.80	5.50

tem 1025 – Credit for Fire Prevention Code Adoption and Enforcement (2.2 points)	Earned Credit	Credit Available	
Fire Prevention Code Regulations (PCR) Evaluation of fire prevention code regulations in effect.	0.00	10	
Fire Prevention Staffing (PS) Evaluation of staffing for fire prevention activities.	1.49	8	
Fire Prevention Certification and Training (PCT) Evaluation of the certification and training of fire prevention code enforcement personnel.	4.25	6	
Fire Prevention Programs (PCP) Evaluation of fire prevention programs.	2.60	16	
Review of Fire Prevention Code and Enforcement (CPCE) subtotal:	8.34	40	

Item 1033 – Credit for Public Fire Safety Education (2.2 points)	Earned Credit	Credit Available
Public Fire Safety Educators Qualifications and Training (FSQ)	6.00	10
Evaluation of public fire safety education personnel training and qualification as specified by the authority having jurisdiction.		
Public Fire Safety Education Programs (FSP) Evaluation of programs for public fire safety education.	18.00	30
Review of Public Safety Education Programs (CFSE) subtotal:	24.00	40

Item 1044 – Credit for Fire Investigation Programs (1.1 points)	Earned Credit	Credit Available	
Fire Investigation Organization and Staffing (IOS) Evaluation of organization and staffing for fire investigations.	8.00	8	
Fire Investigator Certification and Training (IQT) Evaluation of fire investigator certification and training.	4.50	6	
Use of National Fire Incident Reporting System (IRS) Evaluation of the use of the National Fire Incident Reporting System (NFIRS) for the 3 years before the evaluation.	6.00	6	
Review of Fire Prevention Code and Enforcement (CPCE) subtotal:	18.50	20	

Summary of Public Protection Classification Review

Completed by ISO

for

Jessamine CO FD

FSRS Item	Earned Credit	Credit Available
Emergency Reporting		
414. Credit for Emergency Reporting	3.00	3
422. Credit for Telecommunicators	4.00	4
432. Credit for Dispatch Circuits	1.50	3
440. Credit for Receiving and Handling Fire Alarms	8.50	10
Fire Department		
513. Credit for Engine Companies	5.94	6
523. Credit for Reserve Pumpers	0.50	0.5
532. Credit for Pumper Capacity	3.00	3
549. Credit for Ladder Service	1.43	4
553. Credit for Reserve Ladder and Service Trucks	0.00	0.5
561. Credit for Deployment Analysis	2.42	10
571. Credit for Company Personnel	2.34	15
581. Credit for Training	5.11	9
730. Credit for Operational Considerations	2.00	2
590. Credit for Fire Department	22.74	50
Water Supply		
616. Credit for Supply System	22.43	30
621. Credit for Hydrants	2.95	3
631. Credit for Inspection and Flow Testing	4.16	7
640. Credit for Water Supply	29.54	40
Divergence	-5.67	-
1050. Community Risk Reduction	2.80	5.50
Total Credit	57.91	105.5

Final Community Classification = 05/5Y

INSURANCE SERVICES OFFICE, INC.

HYDRANT FLOW DATA SUMMARY

County	Jessamine		State	KENTUCKY (16)	W	itnessed by	Insurance Se	ervices Offic	æ	11/16	Date	Jul 25, 2014	
					FLOW Q=(29.83	- GPM (C(d ²)p ^{0.5}))			SURE	FLOW-	AT 20 PSI		
TEST	TYPE	TEST LOCATION	SERVICE		NDIVIDUAL		TOTAL	STATIC	RESID.	NEEDED	AVAIL.	REMARKS***	MODEL TYPE
NO.	DIST.*				HYDRANTS					4.0			
1		Rear of Jessamine County High School	Jessamine County Water Department	1010	0	0	1010	80	65	4500	2100		
1.1		Rear of Jessamine County High School	Jessamine County Water Department	1010	0	0	1010	80	65	1500	2100		
1.2		Rear of Jessamine County High School	Jessamine County Water Department	1010	0	0.	1010	80	65	5000	2100	(A)-(4500.0 gpm)	
10		Danville Pike	Nicholasville Water Department, Main	750	0	0	750	90	60	1750	1200		
11		Elizabeth Rd. and Lexington Rd.	Nicholasville Water Department, Main	820	0	0	820	60	45	3000	1400		
12		Bethany Rd. n/of Riney B Way	Nicholasville Water Department, Main	650	0	0	650	110	70	1000	1000		
13		Briddle crt at Stirrup Crt.	Nicholasville Water Department, Main	710	0	0	710	100	55	1000	950		
14		200 two oaks drive	Jessamine County Water Department, District 1	870	0	0	870	65	63	1000	4700		
			Jessamine County Water										

THE ABOVE LISTED NEEDED FIRE FLOWS ARE FOR PROPERTY INSURANCE PREMIUM CALCULATIONS ONLY AND ARE NOT INTENDED TO PREDICT THE MAXIMUM AMOUNT OF WATER REQUIRED FOR A LARGE SCALE FIRE CONDITION.

Department
Jessamine County Water
Department

Jessamine County Water

Department

Jessamine County Water

Department

Jessamine County Water

Department

Nicholasville Water Department, Main

Nicholasville Water

Department, Main

Nicholasville Water

Department, Main

9110 Harrodsburg Rd.

1267 at Red Wagon

Clubhouse Drive n/of Old Coach Dr.

Clays Mill Rd, and Brannon Rd.

Front of Tom Warren Printing

6981 Danville Rd. front

Mt. Lebanon Rd. at Hunters Ferry Rd.

Sugar Creek Rd. n/of Ft. Brayant Rd.

City Jessamine Co Fd

THE VAILABLE FLOWS ONLY INDICATE THE CONDITIONS THAT EXISTED AT THE TIME AND AT THE LOCATION WHERE TESTS WERE WITNESSED.

^{*}Comin = Commercial; Res = Residential.

^{**}Needed is the rate of flow for a specific duration for a full credit condition. Needed Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Suppression Rating Schedule.

^{*** (}A)-Limited by available hydrants to gpm shown. Available facilities limit flow to gpm shown plus consumption for the needed duration of (B)-2 hours, (C)-3 hours or (D)-4 hours.