	Title: Fire Sprinkler System – Permit Requirements	Policy No: OP-03
	Category: Operational Procedure	Classification: Development

PURPOSE:

1. To provide clear direction to the fire Sprinkler contractors, general contractors, building owners, and tenant for fire Sprinkler permit application requirements.
2. To ensure all staff are aware of the procedure for the fire Sprinkler permit application requirements.

PROCEDURE:

Requirement for Fire Sprinkler Permit Applications:

1. For new Fire Sprinkler Systems, or for modifications to an Existing Fire Sprinkler Systems involving installation of more than 15 new heads and/or the relocation of more than 20 heads:
 - 1.1 3 sets of drawings sealed and signed by a *Registered Professional* (P. Eng.);
 - 1.2 BC Building Code Schedule B for Fire Suppression Systems ;
 - 1.3 Hydraulic calculation signed and sealed by P. Eng.,
 - 1.4 A “reviewed and accepted” stamp on the Sprinkler drawings from a fire protection engineer If there is an Alternative Solutions involving the fire Sprinkler system is proposed and accepted for the project.

- 2.0 For the installation of not more than 5 new heads; and/or the relocation of not more than 20 heads to an Existing Sprinklered System:
 - 2.1 Application must be made by a Sprinkler Installer certified in the Province of BC,
 - 2.2 2 sets of drawings signed by a Certified Sprinkler Installer;

- 2.3 Page 1 of the LSP 1 Form (Appendix A) completed by the Certified Sprinkler Installer,
 - 2.4 If yes to any of the questions on page 1 of LSP 1, a P. Eng. must complete and provide page 2 of LSP 1 to the Building Official at the time of building permit application,
 - 2.5 The LSP 2 Form (Appendix B) completed by a P. Eng. and submitted to the Building Official before final inspection if the P. Eng. has provided the page 2 of LSP1.
- 3.0 For the installation of between 5 to 15 new heads; and the relocation of 20 or more heads to existing Sprinklered system:
- 3.1 Application must be made by a Sprinkler Installer certified in the Province of BC;
 - 3.2 2 sets of drawings signed by a Certified Sprinkler Installer;
 - 3.3 The LSP 1 form completed by a Certified Sprinkler Installer;
 - 3.4 Page 2 of the LSP 1 form to be completed by a P. Eng. at the time of building permit application; and
 - 3.5 Provide LSP 2 form completed by a P. Eng. to the Building Official before final inspection.

Operational Procedure #:	OP-03
Procedure Owner:	Chief Building Inspector
Endorsed by:	Building
Final Approval:	Director, Development Services & Economic Development
Date Approved:	June 17, 2013
Revision Date:	N/A
Amendments:	N/A
Related Policies:	N/A
Related Publications:	LSP 1 Form (Fire Sprinkler System Contractor's deceleration) LSP 2 Form (Fire Sprinkler System Engineering deceleration)

Contact Person:

Contact Person: Manjit S. Sohi
 Position: Chief Building Inspector
 Phone: 604-514-2816

Email: msohi@langleycity.ca

SCHEDULE LSP 1

PROPOSED FIRE SPRINKLER SYSTEMS MODIFICATIONS (This page to be completed by a certified fire Sprinkler installer)

To: The Chief Building Official
City of Langley
20399 Douglas Cr
Langley, BC V3A 4B3

Date: _____

Dear Sir:

Re:

_____ Address of Project (Print) _____ Name of Project (Print)

No. of New Heads added: _____, No. of Relocated heads: _____

Will the Sprinkler Zone Hazard classification of the modified zones change: Yes , No
Will the new or relocated Sprinkler head have different "K" factor than the existing Sprinklers: Yes , No
Based on City of Langley's Fire Sprinkler Permit Requirements is
an engineer's review and sealed schedule LSP2(s) required? Yes , No

IF YES TO ANY OF THE ABOVE, P. ENG. MUST COMPLETE AND SUBMIT PAGE 2 OF THE LSP1 SCHEDULE

The total number of existing Sprinkler zones in the building: _____
Number of zones being modified: _____
Zone Hazard Changed from _____ to _____ hazard

Description of the Proposed work: _____

Sprinkler Contractor's Name (Please **Print**)

Sprinkler Contractor's Signature

Trade Qualification Number

City of Langley Business License Number

Firm and Address

For Office Use Only

Application Reviewed By	Date:	Application No:
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Building Permit No. _____

Project Address: _____

I, the undersigned, am a registered professional engineer with experience in the design of fire Sprinkler systems and hereby undertake to be reLSPossible for field review of the fire Sprinkler modifications and **the preparation of the City of Langley schedule LSP2 form prior to call for occupancy of the project.**

The undersigned also undertakes to notify the *authority having jurisdiction* in writing as soon as possible if the undersigned' contract for *field review* is terminated at any time during construction.

I certify that I am a *registered professional* as defined in the British Columbia Building Code.

Name (Print)

Signed

Date

Address

(Affix PROFESSIONAL SEAL here)

(If the *Registered Professional* is a member of a firm, complete the following:)

I am a member of the firm _____
and I sign this letter on behalf of the firm. (Print name of firm)

Note: The above letter must be signed by a *registered professional*. The British Columbia Building Code defines a *registered professional* to mean a person who is registered or licensed to practice as a professional engineer under the Engineers and Geoscientists Act.

SCHEDULE LSP2

FIRE SPRINKLER SYSTEM ZONE MODIFICATIONS

(One for each modified zone to be completed by a professional engineer registered in B.C.)

Building Permit No.: _____

To: The Chief Building Official
City of Langley
20399 Douglas Cr
Langley, BC V3A 4B3

Date: _____

Dear Sir:

Re: _____
Address of Project (Print) Name of Project (Print)

Zone Data (existing):

Zone Location::

Hazard Class: _____ Water density _____ usgpm/sq.ft. No. of heads flowing _____

NFPA13 NFPA13R NFPA13D NFPA231 NFPA231c other _____

Modifications Notes:

Modifications shall be installed using _____ pipe material/s and the following size schedules.
(material/s)

Tree Distribution Pipe Sizing fed from minimum _____" dia. dead main or _____" dia. looped main:

New pipe sizing schedule with _____ k-factor Sprinklers (# of Sprinklers allowed per branch size)

2" (50mm): _____ 1.5" (42mm): _____ 1.25" (32mm): _____ 1" (25mm): _____ ¾" (19mm): _____

New pipe sizing schedule with _____ k-factor Sprinklers (# of Sprinklers allowed per branch size)

2" (50mm): _____ 1.5" (42mm): _____ 1.25" (32mm): _____ 1" (25mm): _____ ¾" (19mm): _____

SCHEDULE LSP2

FIRE SPRINKLER SYSTEM ZONE MODIFICATIONS

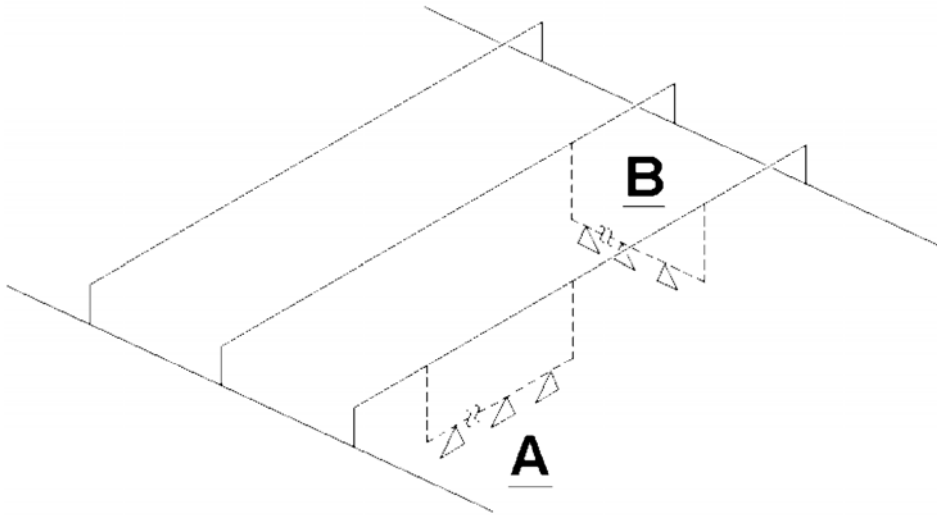
(One for each modified zone to be completed by a professional engineer registered in B.C.)

Schedule LSP2 (continued) Page 2 of 3

Building Permit No.: _____

Project Address _____

Grid Distribution Pipe Sizing:



Using configuration "A" the following schedule generally applies:

New pipe sizing schedule with _____ k-factor Sprinklers (# of Sprinklers allowed per loop / grid size)

2" (50mm): _____ 1.5" (42mm): _____ 1.25" (32mm): _____ 1" (25mm): _____ ¾" (19mm): _____

New pipe sizing schedule with _____ k-factor Sprinklers (# of Sprinklers allowed per loop / grid size)

2" (50mm): _____ 1.5" (42mm): _____ 1.25" (32mm): _____ 1" (25mm): _____ ¾" (19mm): _____

Using configuration "B" the following schedule generally applies:

New pipe sizing schedule with _____ k-factor Sprinklers (# of Sprinklers allowed per loop / grid size)

2" (50mm): _____ 1.5" (42mm): _____ 1.25" (32mm): _____ 1" (25mm): _____ ¾" (19mm): _____

New pipe sizing schedule with _____ k-factor Sprinklers (# of Sprinklers allowed per loop / grid size)

2" (50mm): _____ 1.5" (42mm): _____ 1.25" (32mm): _____ 1" (25mm): _____ ¾" (19mm): _____

**ASSURANCE OF PROFESSIONAL FIELD REVIEW
AND COMPLIANCE**

Schedule LSP2 (continued) Page 3 of 3

Building Permit No.: _____

Project Address: _____

- Note: 1. This letter must be submitted after completion of the project but before the occupancy permit is issued, or a final inspection is made, by the *authority having jurisdiction*.
2. In this form the words in italics have the same meaning as in the British Columbia Building Code.

I hereby give assurance that

- (a) I have fulfilled by obligations for *field review* as outlined in Section 2.6 of the British Columbia Building Code and in the previously submitted Schedule LSP1, "Proposed Fire Sprinkler Systems Modifications", and
- (b) I am a *registered professional* as defined in the British Columbia Building Code.

Name (Print)

Signed

Date

Address

(Affix PROFESSIONAL SEAL here)

(If the *Registered Professional* is a member of a firm, complete the following:)

I am a member of the firm _____
and I sign this letter on behalf of the firm. (Print name of firm)

Note: The above letter must be signed by a *registered professional*. The British Columbia Building Code defines a *registered professional* to mean a person who is registered or licensed to practice as an architect professional engineer under the Engineers and Geoscientists Act.