EXHIBIT B

ARCHITECTURAL DIMENSIONS

300 Frank H. Ogawa Plaza
Suite 375
Oakland, CA 94612

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James M. Heilbronner
Architect C 11531

July 16, 2014

Mr. Lukas Quach, Senior Plan Check Engineer
Building Department
City of Burbank
150 North Third Street
Burbank, CA 91502

Re: Hilton Garden Inn
401 S. San Fernando Blvd
Burbank, CA 91502

Subject: **Alternative Materials & Methods Request for File # 12-0008142 – Intumescent Paint**

Dear Lukas,

We are requesting an Alternative Materials and Method of construction approval for the above referenced project as follows:

SUBJECT OF ALTERNATIVE MATERIALS AND METHODS REQUEST

CBC Section 602.3 allows for the use of Fire Retardant Wood framing in exterior wall assemblies of a 2-hour rating or less. This project has 2-hour rated exterior walls which are constructed of fire retardant framing.

Fire Retardant Framing shall comply with Section 2303.2. Section 2303.2.1 and 2303.2.2 stipulates that the treatment be a pressure process and if not then it shall be by a manufactured process that is integral to the wood.

ISSUE

The exterior walls of the project will constructed of fire retardant framing per the above referenced CBC code provisions. Portions of the exterior walls also include pre-manufactured laminated wood products such as glu-lam beams, parallam beams, LVLs and PSLs. These particular framing members cannot be fire treated using the pressure treated method or treated as an integral part of the manufacturing process.

ALTERNATIVE PROPOSED

Install a topical treatment as follows:

- Apply 2 coats of Flame Stop IM, intumescent paint, a topical (surface applied) product to laminated wood products to achieve the fire protection required. Flame Stop IM does not alter the structural integrity of the laminated wood lumber, and after application achieves a 30 minute rating which is considered equivalent to fire retardant lumber.

- Installation of this type of fire-retardant treatment will be monitored & tested by a certified testing company. Inspection service protocols are attached as Exhibit A.

JUSTIFICATIONS

CBC Section 602.3 Type III states that this construction type is one "in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code".

Fire Stop IM, intumescent paint, is a field-applied, 30 minute-rated retardant that achieves a flame spread of 0 and a Smoke Develop coefficient of 110 with 2 coats, per ASTM E84. As such, it meets the code definition of non-combustible. It does not alter the structural integrity of laminated wood members as it its surface applied. This meets the intent of the code requirement. Please see attached product information.

Sincerely,

ARCHITECTURAL DIMENSIONS

Antonio Robles, Architect

Enclosures

cc: OT094
Mario Osuna, City of Burbank Building Department

REVIEWED / APPROVED BY:

Mr. Lukas Quach

Mr. Mario Osuna

ADDITIONAL COMMENTS: _____

071614SMW-AMMR
Email

Exhibit A

Inspection Service Protocols: Intumescent Paint

Special inspection firm will perform periodic inspection on the Flamestop IM paint application on the structural wood members for the referenced project. The protocol for inspection services is shown below based on the attached product data sheet from the manufacturer:

1) Contractor will call for inspections periodically on every level of construction and WABO certified fireproofing inspector will review material used during inspection.

2) Inspector will witness the FM IM tip size of 0.017 and application rate of 150 sf per gallon and that two coats are applied.

3) All normal conditions for applying interior, latex paint shall apply. Material shall be free of dirt, debris or mold. Dry time varies, but second coat shall be applied when first coat is secure.

4) Contractor shall supply manufacturer's product data to inspector for product backup.

5) On site flame test will occur on sacrificial members from each level of wood construction.

6) Inspector shall supply daily field reports noting the above mentioned items and any other items needed to document application process.

FLAME STOP® IM

PRODUCT DATA SHEET

FLAME STOP INC.™

1-877-397-7867

DESCRIPTION:

Flame Stop Intumescent Paint (IM) is a 30-minute rated, latex based, post-treatment, interior fire retardant. When the treated material comes in contact with an open flame, the paint shall intumesce to reduce the flame spread and self-extinguish fire with minimal smoke developed. On compatible materials such as Douglas fir wood, Flame Stop IM shall provide a Class A rating. Flame Stop IM is a labor-saving coating which can achieve a Class A rating with only one coat applied at 150 square feet per gallon. When two coats are applied at a combined 100 square feet per gallon, the substrate achieves a 30-minute rating equivalent to FR treated lumber. Flame Stop IM is non-toxic, non-combustible, non-carcinogenic, easy to apply, and contains no PDBE's.

BASIC USES:

Flame Stop IM is engineered for commercial and residential interior surfaces such as: panelling, non-porous substrates, veneer, wood trusses, gypsum board, structural wood, plastic, previously coated surfaces, and MDF. FOR INTERIOR USE ONLY.

ADVANTAGES:

Flame Stop Intumescent Paint achieved a Class A rating with a Flame Spread of 10 and Smoke Developed of 45 for one coat (ASTM E84) and Flame Spread of 0 and Smoke Developed of 110 for two coats (ASTM E84 extended to 30 minutes). Flame Stop IM is water-based, non-toxic, mold resistant, stain blocking, fast curing, and will not alter the structural integrity of wood such as pressure treatment.

LIMITATIONS:

Storage Range: 45 – 110 degrees Fahrenheit
(7 – 43 Celsius)
Shelf Life: One year, if kept within storage range.
A compatibility test is strongly recommended.
Do not dilute.
Interior use only.

TECHNICAL SUPPORT

Total solids:	60%
Wt per gallon:	11 Lbs.
Color:	Black / White
Bacterial:	Excellent resistance
Fungus:	Excellent resistance
Volatility:	None
Toxic:	No
Biodegradeable:	Yes
Insects, rodents and mold:	Excellent resistance

CONTACT US AT:

924 Blue Mound Rd.
Ft. Worth, TX 76131
817-306-1222
FAX 817-306-1733
info@flamestop.com

VISIT US AT:

www.flamestop.com

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APPLICABLE STANDARDS:

Flame Stop IM was tested to the following standards:
ASTM E-84, NFPA 255, UL 723: Omega Point Laboratories #8746-108578 ASTM E-84, NFPA 255, NFPA 703 30 MIN: SWRI (Southwest Research Institute) #01.10932.01.195 BML:California State Fire Marshal Listing Service: Listing No. 2280-1664:100

APPLICATION:

Ensure that all materials are clean prior to application. Apply Flame Stop IM as is by spraying, brushing, or rolling. Apply at the rate of 150 square feet per gallon for one coat or 200 square feet per gallon per coat for two coats. When doing multiple coats, wait until the first coat has dried before beginning the next application. This paint requires a 48-hour curing period. For spray application, use an airless sprayer suitable for applying a latex-based paint and a .017 tip size.

**** After treatment a **48-hour** conditioning period is necessary before testing ****

TESTING:

A small-scale test can be performed with the utilization of a sample of the treated material and a small flame (butane lighter or match). Hold a 4" x 12" piece of the treated material vertically and apply the flame to the lower portion for 10 seconds and then remove the ignition source. The flame must self-extinguish within two (2) seconds. This test is similar to the small-scale NFPA 701 field test.

FLAMESPREAD 10 AND SMOKE DEVELOPED 45 PER ASTM-E84
FLAMESPREAD 0 AND SMOKE DEVELOPED 110 PER NFPA 703 (30 minutes, two coats)
May, 2010

TESTED BY:
U.S. TESTING COMPANY
INC. (SGS NORTH AMERICA)
OMEGA (INTERTEK)
COMMERCIAL TESTING

NOTES:

WARRANTY:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.

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MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY INFORMATION

Date: January 2013

Product Name:	Flame Stop IM
Hazard Rating:	Health: 1 Fire: 0 Reactivity: 0
Company Identification:	Flame Stop, Inc. 924 Blue Mound Rd. Fort Worth, TX 76131
Telephone:	1-877-397-7867
Chemtrec (24 hr):	1-800-424-9300
Product Class:	Proprietary
Shipping Name:	Flame Stop IM

SECTION II – INGREDIENT AND HAZARD INFORMATION

PROPRIETARY NON HAZARDOUS CHEMICALS

SECTION III – PHYSICAL DATA

Form:	liquid
Appearance/color:	white/black
pH Value:	8
Boiling Range:	N/A
Evaporation Rate:	Slower than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile Weight:	N/A
% Volatile / Volume:	N/A
Specific Gravity:	proprietary

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flammability Class:	IIIB
Flash Point:	N/A
Extinguishing Media:	Carbon Dioxide, Foam, Dry Chemical, water
Special Firefighting Procedures:	Use self contained breathing apparatus
Unusual Fire and Explosion Hazards:	none

SECTION V – HEALTH HAZARD DATA

Effects of Over Exposure:
Eye irritation, nausea. Prolonged exposure may cause drying of the skin.

Permissible Exposure Level:	Undetermined

First Aid:

INHALATION:	Remove from exposure area
EYE CONTACT:	Flush with water for 15 minutes
SKIN CONTACT:	Wash with soap and water
POSSIBLE ROUTES OF ENTRY:	Inhalation, ingestion, skin absorption

SECTION VI –STABILITY AND REACTIVITY

Stability:	Yes
Hazardous Polymerization:	Will not occur
Incompatibility:	Avoid water-reactive agents.
Hazardous decomposition Products:	Carbon Monoxide, Carbon Dioxide

SECTION VII – SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Remove spills with inert absorbent.

Waste Disposal Method:
Dispose of in accordance with Federal, State and Local regulations.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits
ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA STEL OSHA PEL

RESPIRATORY PROTECTION: If in direct contact or spray application use a dust or paint mask.
VENTILATION: Not required
EYE PROTECTION: Not required
PROTECTIVE GLOVES: Not required

DISCLAIMER: The data herein is believed to be correct. However, since conditions of use are outside our control it does not represent a warranty or representation for which Flame Stop, Inc. assumes any legal responsibility. Flame Stop makes no guarantee or warranty since they have no control over application conditions.

SOUTHWEST RESEARCH INSTITUTE®

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CHEMISTRY AND CHEMICAL ENGINEERING DIVISION
DEPARTMENT OF FIRE TECHNOLOGY
WWW.FIRE.SWRI.ORG
FAX (210) 522-3377

QUALITY SYSTEM REGISTERED TO ISO 9001:2000

INVESTIGATION OF THE SURFACE BURNING CHARACTERISTICS OF A TWO-COAT FLAME STOP INTUMESCENT PAINT, APPLIED TO 0.75 IN. THICK DOUGLAS FIR WOOD PANEL MATERIAL ID: FLAME STOP INTUMESCENT PAINT

FINAL REPORT
Consisting of 6 Pages
SwRI Project No.: 01.10932.01.195
Test Date: June 17, 2005

Report Date: July 12, 2005

Prepared for:

FLAME STOP, INC.
924 BLUEMOUND ROAD
FT. WORTH, TX 76131

Prepared by:

Anthony L. Sauceda
Senior Engineering Technologist
Material Flammability Section

Approved by:

Gladys M. Miller, M.S., M.B.A.
Acting Manager
Material Flammability Section

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INTRODUCTION

This report presents the results of a modified NFPA 255 test (extended to 30 minutes) on a specimen submitted by the Client and tested at Southwest Research Institute's (SwRI's) Department of Fire Technology, located in San Antonio, Texas. The test is conducted in general accordance with the procedure outlined in NFPA 255-00, "Standard Method of Test of Surface Burning Characteristics of Building Materials" (ASTM E 84, ANSI/UL 723 and UBC 8-1) and NFPA 703-00, "Standard for Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials."

Normally, these requirements detail a method of test intended to evaluate fire performance of metallic and nonmetallic roof deck constructions subjected to an internal (under deck) small scale fire exposure for 30 minutes for the purpose of determining the contribution of the roof covering material, insulation, and other components of the roofing system to the spread of fire within a building. As the extent of flame propagation, thermal degradation, and combustive damage are determined after roof deck construction are exposed to controlled laboratory fire conditions as provided by a horizontal tunnel furnace, these requirements are not intended for use in describing or defining the fire hazard or risk of fire under actual fire conditions.

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame Spread and Smoke Developed index are reported. However, there is not necessarily a relationship between these two measurements.

The specimen may consist of a continuous, unbroken length, or of sections joined end-to-end. When requested by the Client, specimens are prepared at SwRI following the Client's instructions. Unless otherwise indicated by the Client, test specimens are conditioned as appropriate in an atmosphere maintained between 68 and 78°F and 45 to 55% relative humidity.

Immediately prior to the test, the specimen is placed into the furnace and centered on the interior width so that the flame is evenly distributed over the width of the specimen and engulfs the test specimen at the fire end.

The flame front position and light obscuration are recorded throughout the 30-minute test. The Flame Spread and Smoke Developed indices are calculated only during the first 10 minutes of the test. The temperature at 24 ft is also recorded.

The Flame Spread and Smoke Developed indices reported herein are relative to the results obtained for mineral fiber-reinforced cement board and select grade red oak (moisture content between 6 and 8%). The mineral fiber-reinforced cement board is the calibration material used to obtain 0 values for Flame Spread and Smoke; red oak decks are used to obtain 100 values for Flame Spread and Smoke.

The results apply specifically to the specimens tested, in the manner tested, and not to the entire production of these or similar materials, nor to the performance when used in combination with other materials.

This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled conditions and should not be used to describe or appraise the fire-hazard or fire-risk of materials, products, or assemblies under actual fire conditions. However, results of the test may be used as elements of a fire-hazard assessment or a fire-risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard or fire risk of a particular end use.

MODIFIED NFPA 255-00 REPORT

CLIENT: FLAME STOP, INC.
SWRI PROJECT NO: 01.10932.01.195
TEST DATE: JUNE 17, 2005
DAILY TEST NO: 1

DESCRIPTION OF SPECIMEN

DATE RECEIVED:	17-Jun-2005 (received ready-to-test)
MATERIAL ID:*	Flame Stop Intumescent Paint
TRADE NAME:*	Flame Stop IM
DESCRIPTION:	Two coats of intumescent paint applied to 0.75 in. thick Douglas fir wood panels
CONSTRUCTION:*	Flame Stop IM applied to 0.75 in. thick Douglas fir wood at a coverage rate of 200 sq ft/gal (two coats)
THICKNESS:	0.75 in. thick wood panel (nominal)
UNIT WEIGHT:	34.0 lbs per panel
COLOR:	White (paint)
SPECIMEN SIZE:	Three panels, 21.0 in. wide x 96.25 in. long
CONDITIONING TIME:*	0 day at 70°F and 50% relative humidity
SUPPORT USED:	None
WITNESSED BY:	Mr. James Bower, Jr. and Ms. Amy Marie representing Flame Stop, Inc.

* From Client's material description

[1] Data acquired during first 10 minutes of the test
[2] Data acquired during the entire 30 minutes of the test

MODIFIED NFPA 255-00 REPORT

CLIENT: FLAME STOP, INC.
SWRI PROJECT NO: 01.10932.01.195
TEST DATE: JUNE 17, 2005
DAILY TEST NO: 1

TEST RESULTS (ROUNDED TO NEAREST 5)

FLAME SPREAD INDEX (FSI):	0 [1]
SMOKE DEVELOPED INDEX (SDI):	110 [1]

TEST DATA

UNROUNDED FSI:	2.1 [1]
UNROUNDED SDI:	112.3 [1]
FS*TIME AREA (Ft*Min):	4.1 [1]
SMOKE AREA (%*Min):	117.3 [1]
AVERAGE OPTICAL DENSITY:	0.067 [2]
MAXIMUM OPTICAL DENSITY (@Min:Sec):	0.140 @ 11:33 [2]
FUEL AREA (°F*Min):	17865.1 [2]

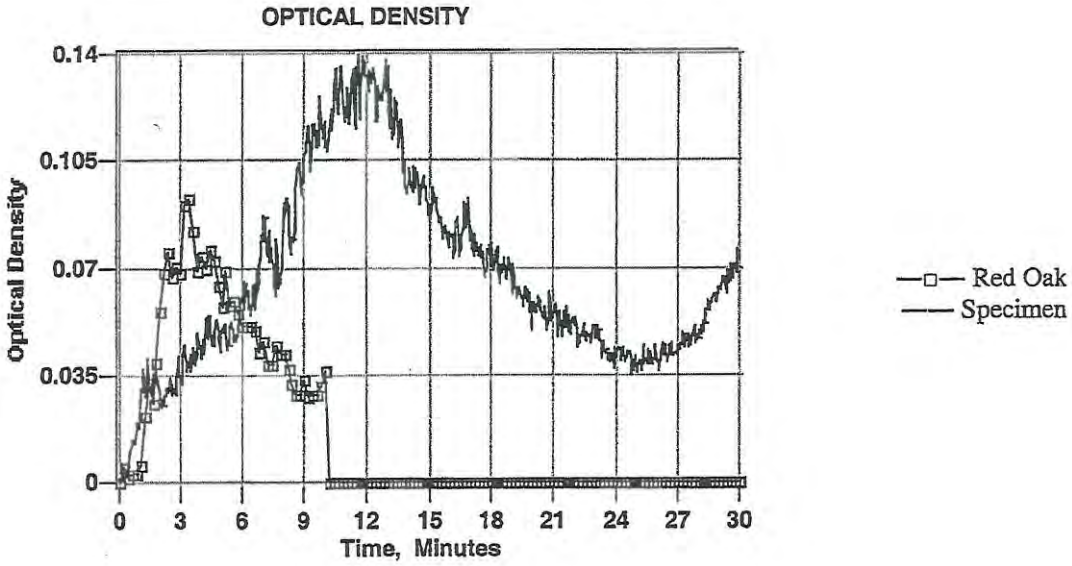
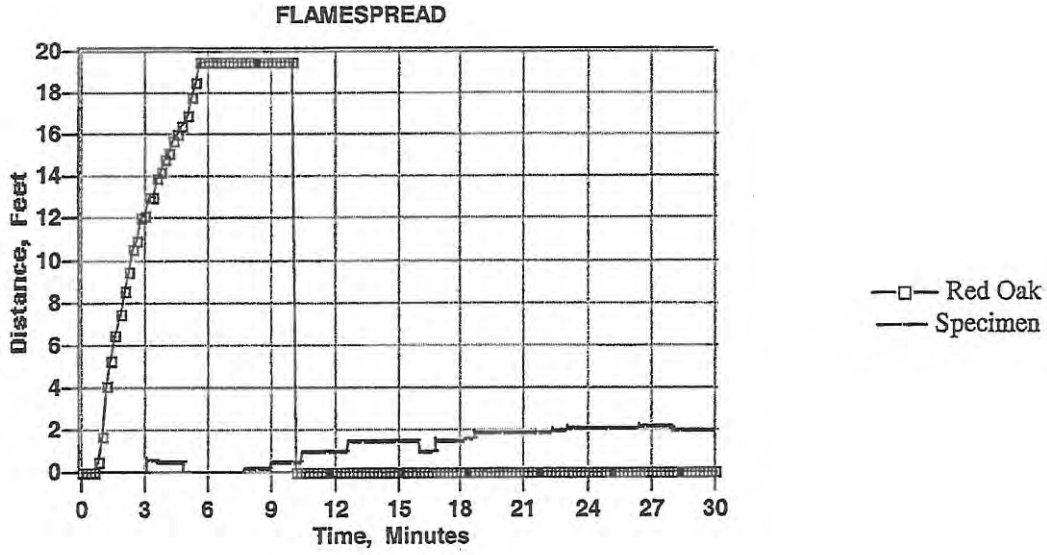
OBSERVATIONS DURING TEST

IGNITION TIME (Min:Sec):	0:37 (spotty)
MAXIMUM FLAME FRONT ADVANCE (Ft.):	0.6 Ft [1]
TIME TO MAXIMUM ADVANCE (Min:Sec)	3:09 [1]
30-MINUTE MAXIMUM FLAME FRONT (Ft @ Min:Sec):	2.2 @ 26:33 [2]
MAXIMUM TEMP. AT EXPOSED TC (°F):	660°F [2]
TIME TO MAXIMUM TEMP. (Min:Sec)	23:21 [2]
TOTAL FUEL BURNED (Cu. Ft.):	156 Cu Ft [2]
DRIPPING (Min:Sec):	None
FLAMING ON FLOOR (Min:Sec):	None
AFTERFLAME TOP (Min:Sec):	3:00+
AFTERFLAME FLOOR (Min:Sec):	None

CALIBRATION DATA (LAST RED OAK)

RED OAK SMOKE AREA (%*Min):	100.2
RED OAK FUEL AREA (°F*Min):	8358.4
GRC BOARD FUEL AREA (°F*Min):	5149.9

[1] Data acquired during first 10 minutes of the test
[2] Data acquired during the entire 30 minutes of the test

MODIFIED NFPA 255-00 REPORT

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