

STATE OF LOUISIANA
Department of Public Safety and Corrections
Office of State Fire Marshal Code Enforcement and Building Safety
8181 Independence Boulevard
Baton Rouge, Louisiana 70806
225-925-4920

H "BUTCH" BROWNING
FIRE MARSHAL

FIRE SUPPRESSION SYSTEM

ROBERT WILTSE, ARCHITECT
DAMMON ENGINEERING INC
1095 FLORIDA AVE
SLIDELL, LA 70458-0000

RE: P0358362
PLATFORM CRANE
60461 DOSS DRIVE
SLIDELL, LA 70458

NFPA 101, 2006

BUSINESS

Dear Applicant:

Please be advised that we have made a general review of the drawings, calculations, and equipment data for the proposed Fire Suppression System, based on the submittal package received for the above referenced project. This review is governed by the Official Manual of the Office of State Fire Marshal, which contains the adopted laws, codes, rules, and regulations of this office. This review, in no way, shall permit and/or authorize any omissions or deviations from the specific requirements of the Official Manual. Requirements cited in this review do not relieve the licensed fire suppression system designer and the Professional Of Record, when required by LA RS 37, from complying with all the requirements contained in the Official Manual. Subsequent to our general review of the submittal package, we have determined that the drawings, calculations, and equipment data appear to satisfactorily comply with the adopted laws, codes, rules and regulations of the State Fire Marshal, subject to the following requirements and review qualifications:

NOTE: THE COMMENTS LISTED BELOW IDENTIFY APPARENT DEFICIENCIES DETECTED IN OUR REVIEW OF THE DOCUMENTS SUBMITTED.

1. **13:22.4.4.7 The calculated system shall not exceed the available volume and pressure of the water supply at the point of connection. Include all friction losses, e.g. private supply piping, fittings, devices such as valves, meters (including detector check valves), strainers, backflow preventers, etc. and calculate elevation changes that affect the sprinkler discharge.**

This item is deficient in that compliance is not verifiable and / or has not been documented in the submittal. E.G., based on the cross section submitted, it does not appear that all of the riser pipe lengths between the sprinklers and the branchlines at Design Area # 2 have been accounted for

Professional of Record (POR) verify that the calculations, drawing(s) and placard information are corrected to accurately represent system demands. If system modifications are required (e.g. : to keep the system demand below the available supply), or if there are deviations from the submitted plans, resubmit.

2. 13:8.16.4.1 Protect sprinkler piping from freezing. Provide a method of maintaining permanent heat to all areas containing wet sprinkler piping subject to temperatures below 40 degrees F. Inspector to verify method of freeze protection.

NOTE: THE FOLLOWING COMMENTS IDENTIFY ISSUES FOR INFORMATIONAL AND CAUTIONARY PURPOSES OR ISSUES THAT COULD NOT BE VERIFIED IN THE SUBMITTED DOCUMENTS.

3. This review applies to the riser(s), piping lay-out and sprinkler head locations, for compliance with NFPA 13, 2007 Edition as shown on the drawings for the above referenced project. NFPA 25, Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems is a requirement of this office and shall be adhered to.
4. Locations for proposed fire department connection(s) - FDC and fire hydrant(s) - FH within this scope of work, shall be acceptable to the local fire department. Submit to the SFM Inspector, a statement from the local fire department, that the FDC and FH as proposed, are acceptable. Statement to acknowledge proposed outlet diameters, fitting type and thread type, indicating compatibility with local fire department equipment. In lieu of a signed statement, the local fire department may indicate review of the FDC and FH by stating such on the shop drawings bearing the State Fire Marshal review stamp.
5. This review is based on a project supplied with:
 - a) A city water supply of 56 psi static and 20 psi residual, flowing 530 g.p.m. Drawing indicates 6/11/08 test by JEFFERSON SPRINKLER, INC @ 11:20 AM Inspector verify static pressure at riser
6. 25:4.1.6 Where changes in the occupancy, hazard, water supply, storage commodity, storage arrangement, building modification, or other condition that affects the installation criteria of the system are identified, the owner or occupant shall promptly take steps, such as contacting a qualified contractor, consultant, or engineer, to evaluate the adequacy of the installed system in order to protect the building or hazard in question.
 - 25:4.1.6.1 Where the evaluation reveals a deficiency causing a threat to life or property, the owner shall make appropriate corrections. All requirements of the authority having jurisdiction shall be followed.
7. 13:23.1.8.3 This review is based on the following backflow preventer: 6 inch AMES COLT 200. If any other manufacturer, model number, or size of backflow preventer is required, or is contemplated for substitution, provide applicable documentation to this office for review, complete with supporting hydraulic calculations, prior to installation. Inspector, please verify installation of the above referenced backflow preventer.
8. 13:23.1.8.3 This submittal does not indicate a in-line meter in the supply piping. If an in-line meter is installed , this review is rescinded. Verify that no in-line meter is installed.
9. 13: 23.1.5.1 Water supplies and environmental conditions shall be evaluated for the existence of microbes and conditions that contribute to microbiologically influenced corrosion (MIC). Where conditions are found that contribute to MIC, the owner(s) shall notify the sprinkler system installer and a plan shall be developed to treat the system using one of the following methods:
 - (1) Install a water pipe that will not be affected by the MIC microbes.
 - (2) Treat all water that enters the system using an approved biocide.

(3) Implement an approved plan for monitoring the interior conditions of the pipe at established time intervals and locations.

13:23.1.5.2 Water supplies and environmental conditions shall be evaluated for conditions that contribute to unusual corrosive properties. Where conditions are found that contribute to unusual corrosive properties, the owner(s) shall notify the sprinkler system installer and a plan shall be developed to

treat the system using one of the following methods:

(1) Install a water pipe that is corrosion resistant.

(2) Treat all water that enters the system using an approved corrosion inhibitor.

(3) Implement an approved plan for monitoring the interior conditions of the pipe at established intervals and locations.

13:23.1.5.3 Where approved biocides and corrosion inhibitors are used together they shall be compatible with each other and system components.

- 10. 13:4.1 and 13:8.1.1 Sprinklers shall be installed throughout the premise.**
- 11. This review shall in no way permit or authorize any omissions or deviations from the specific requirements of the adopted codes, rules and regulations in accordance with R.S. 40:1574.1(B). Requirements cited in this review do not relieve the owner, licensed fire suppression system contractor, Professional Of Record, etc. from complying with all the applicable code requirements.**
- 12. NOTE: Please enclose a copy of this letter with future submittals or other correspondence pertaining to this project.**

Changes to construction in the field which are not consistent with the reviewed documents are not authorized unless reviewed by this office for compliance with Code. Modifications to reviewed plans must be submitted to this office by the Architect/Civil Engineer for review prior to final inspection. If an Architect or Civil Engineer is not required by RS 37:155, revisions shall be submitted by the Owner. Submittals shall include plans, completed application, a minimum \$55.00 review fee, and a copy of the most current plan review letter.

Occupancy of the project is permitted only upon the receipt of the applicable Contractor's Material & Test Certificate as per NFPA 13, Fire Alarm System Certificate and Description as per NFPA 72, or other certification as required by the applicable codes and a satisfactory inspection of the completed construction had been made by this office.

To arrange for inspection of the project, please contact the District Office at the phone number below two (2) to three (3) weeks in advance. The plans stamped reviewed by this office must be available on job site at time of inspection. Certificate of completion must be provided to the inspecting Deputy for final inspection.

This review is valid for 180 days from the date of this letter. Construction permits must be issued and/or construction must commence within this time period.

REVIEWED BY:
DONNA LEBLANC
MECHANICAL ENGINEER

CC:
Rdg Properties

Jefferson Sprinkler Inc
Property Insurance Association*
St Tammany Fire Protection District No 1*
City Of Slidell*
New Orleans District* 5042194600