2007 Plan Review - Fire Sprinkler System Reminder List

Instructions: The following items are to be verified for completeness prior to submitting to OSHPD for plan review.

Submittal Requirements
1. Two (2) Sets of Plans and Calculations
2. Two (2) Sets of Equipment Submittals (cut sheets and product information)
3. Water Supply and Pressure Data from City or District. (test data must be less than a year old)
4. Transmittal Letter with Name, Address, Phone, Fax, and License Number of Sprinkler Contractor

I. General Information- Working Plans
1. Name of Owner and Occupant
2. Location, Including Street Address
3. Symbol Legend, point of compass, graphic scale, sheet numbers
4. Type of Construction and Occupancy of Each Building
5. Location of Fire Rated Wall Assemblies. Provide "Through Penetration" Fire Stopping Details and Listings
6. Full Height Cross Section of Building Showing Location of Fire Sprinkler Heads and Piping
7. Use and Function of Each Area or Room
8. Location and Size of Concealed Spaces, Closets, Attics, and Bathrooms
9. Any Small Enclosures in Which No Sprinklers Are to Be Installed (Include Justification)
10. Make, Type, Model, and Nominal K-Factor of Sprinklers. Indicate Existing Sprinkler Type.
11. Temperature Rating and Location of High Temperature Sprinklers
12. Number of Sprinklers on Each Riser Per Floor and Total Area of Space Being Protected
13. Total Number of Sprinklers on each Dry Pipe, Preaction, or Deluge System
14. Nominal Pipe Size and Cutting Legnth of Pipe
15. Location and Complete Detail of Sprinkler and Standpipe Risers
16. Types of Fittings and Joints and Location of All Welds (Welding Inspection to Be Included on TIO)
17. Type and Location of Hangers, Trapezes, and Braces (Provide Calculations for Sway Bracing)
18. All Control Valves, Check Valves, Drain Pipes, and Test Connections
19. Kind and Location of Alarm Bells and Standpipe Riser Fire Department Connections
20. Size, Location, and Piping Arrangements for Fire Department Connections
21. Type and Location of Small Hand / Hose Equipment and Fire Pumps
22. Fire Authority Signatures for Appliance Locations and Water Supply
23. Reference CBC Amendments to NFPA 13 in CBC Chapter 35, Section 3505
24. Reference OSHPD Policy Intent and Code Application Notices
26. See NFPA 13, Chapter 8 Section 8-1.1 & 8-2.1 for Additional Items Not Listed On This Checklist.
II. Hydraulic Calculation Worksheets

1. Sheet Number
2. Sprinkler Discharge, Discharge Constant \((K)\), and Flow in GPM
3. Hydraulic Reference Points
4. Provide Hazard Classification For All Areas to be Sprinklered
5. Indicate if System is Hydraulic and Pipe Schedule mix.
6. Pipe Size, Pipe Lengths, and Center to Center of Fittings
7. Equivalent Pipe Lengths for Fittings and Devices
8. Friction Loss in psi/ft of Pipe and Appropriate "C" factor of Pipe
9. Total Friction Loss Between Reference Points
10. Elevation Head in psi at each Reference Point
11. Required pressure in psi Between Reference Points
12. Velocity Pressure and Normal Pressure if Included in Calculations
13. Diagram of Most Remote Area Showing Sprinkler Nodes Included in Calculations
14. Graph Sheet Showing Supply Curve, Demand and Hose Demand

NOTE:
The purpose of this list is to reduce oversights and to achieve minimum levels of uniformity and completeness. The use of this reminder list does not constitute a complete plan review. Compliance with all items on this list does not necessarily assure compliance with all provisions of the applicable codes and standards. This reminder list should be used only by persons with a comprehensive knowledge of the applicable codes and standards.

OSHPD Reference Material Available on the Internet

OSHPD Fire and Life Safety Forms
http://www.oshpdc.ca.gov/FDD/Forms/index.htm#FLSO

OSHPD Project Review Status
http://www.oshpd.ca.gov/oshpdKEY/ProjStatus.htm

OSHPD Public Use Forms
http://www.oshpd.ca.gov/FDD/Forms/index.htm