

## Grand Junction Fire Department New Development Fire Flow Form

Instructions: To process the application, the developer/applicant's engineer should first fill out all items in Section A, and then deliver/mail this form to the appropriate water purveyor.<sup>1</sup> Once the water supplier has signed and given the required information, deliver/mail the completed and fully signed form to the City or County Planning Department.<sup>2</sup>

### SECTION A

Date: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Project street address: \_\_\_\_\_  
Assessor's Tax Parcel Number: \_\_\_\_\_  
Property Owner name: \_\_\_\_\_  
City or County project file #: \_\_\_\_\_  
Name of Water Purveyor: \_\_\_\_\_  
**Contact Name:** \_\_\_\_\_  
**Contact Phone Number:** \_\_\_\_\_

1. If the project includes one or more one or two-family dwelling(s):
    - a. The maximum fire area<sup>1</sup> for each one or two family dwelling will be \_\_\_\_\_ square feet.
    - b. All dwelling units will , will not  include an approved automatic sprinkler system.Comments: \_\_\_\_\_  
\_\_\_\_\_
  2. If the project includes a building other than one and two-family dwelling(s):
    - a. List the fire area and type of construction for all buildings used to determine the minimum fire flow requirements: \_\_\_\_\_  
\_\_\_\_\_
    - b. List each building that will be provided with an approved fire sprinkler system: \_\_\_\_\_  
\_\_\_\_\_
  3. List the minimum fire flow required for this project (based on Appendix B and C): \_\_\_\_\_  
\_\_\_\_\_
- Comments: \_\_\_\_\_
- 
- \_\_\_\_\_

Note: Fire Flow Rule: The City's Fire Code<sup>3</sup> sets minimum fire flows for all structures and new development. In general, for single family dwellings, at least 1000 g.p.m at 20 p.s.i. residual pressure must be continuously available at each structure. Duplex, other residential and all non-residential uses must have more fire flows in order to fight fires. Inadequate fire flows are normally due to water supply pipes that are too small or too little water pressure, or a combination of both.

Note for the Applicant/Project engineer: Refer to Appendix B and C, IFC 2012, to determine the minimum fire flow required for this project, based on the Water Purveyor's information (*i.e.*, location, looping and size of water lines; water pressure at the site, *etc.*) and the type, density and location of all structures. Base your professional judgment on the City approved utility plans and Water Provider information shown on this Form. Each time the utility plans/other information relating to treated water changes, resubmit this form just as you did the first time.

**\*End of Section A. Section B continues on the next page\***

<sup>1</sup> Fire flow calculation area, 2012 IFC, B104.1, p 445.

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## SECTION B

[To be completed by the Water Supplier]

1. Circle the name of the water supplier: Ute      Clifton      Grand Junction
2. List the approximate location, type and size of supply lines for this project, or attach a map with the same information:
3. List the g.p.m. at 20 p.s.i. residual pressure at the point that the development/project will be connected to the existing water system: \_\_\_\_\_.
3. Attach fire flow test data for the fire hydrants nearest to the development/project that must be used to determine available fire flow: \_\_\_\_\_  
[Or: **1.** attach a map or diagram with the same information, or **2.** attach a map/diagram with flow modeling information.]
4. If new lines are needed (or if existing lines must be looped) to supply the required fire flows, or if more information is needed to state the available minimum gpm @ 20 psi residual pressure, please list what the applicant/developer must do or obtain: \_\_\_\_\_

Print Name and Title of Water Supplier Employee completing this Form:

Date \_\_\_\_\_

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**Note:** Based on the facts and circumstances, the Fire Chief may require the applicant/developer to engage an engineer<sup>4</sup> to verify/certify that the proposed water system improvements, as reflected in the approved utility plans submitted in support of the application/development, will provide the minimum fire flows to all structures in this project. If so, the engineer's signature below means that the City's Fire Flow requirements will be met by this development, if constructed as approved.

Print Name and License No. of P.E.:

Signature of P.E.:

Dated: \_\_\_\_\_

<sup>1</sup> There are three drinking water suppliers: Ute Water, Clifton Water, and City of Grand Junction Water.

<sup>2</sup> Address: City- 250 North 5th St., Grand Junction, CO 81501; County-P.O. Box 20000, Grand Junction, CO 81502

<sup>3</sup> International Fire Code, 2012 Edition

<sup>4</sup> City Code defines engineer as one who is licensed as a P.E. by the state of Colorado.