

Grand Junction Fire Department New Development Fire Flow Form

Instructions to process the application: Step 1) Applicant should first fill out all items in Section A. Step 2) Deliver/mail this form to the appropriate water purveyor.¹ The water supplier signs and provides the required information of Section B. Step 3) Deliver/mail the completed and fully signed form to the City or County Planning Department.²

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: _____

Applicant Name/Phone Number: _____
Applicant E-mail: _____

1. If the project includes one or two-family dwelling(s):
 - a. The maximum fire area (see notes below) 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 (See International Building Code [IBC]) 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 in the International Fire Code [IFC]): _____

Comments: _____

Notes:

Fire Area: The aggregate floor area enclosed and bounded by fire walls, fire barriers, exterior walls or horizontal assemblies of a building. Areas of the building not provided with surrounding walls shall be included in the fire area if such areas are included within the horizontal projection of the roof or floor next above.

Fire Flow Rule: The City's Fire Code³ sets minimum fire flows for all structures. In general, at least 1,000 gpm at 20 p.s.i. is required for residential one or two family dwellings up to 3,600 square feet (sf) of fire area. For dwellings greater than 3,600 sf of fire area or all commercial structures, the minimum fire flow is 1,500 gpm at 20 p.s.i. (See Fire Flow Guidance Packet⁴). Inadequate fire flows are normally due to water supply pipes that are too small or too little water pressure, or a combination of both.

Applicant/Project Engineer: Refer to City of Grand Junction most recently adopted IFC, 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

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SECTION B

To be completed by the Water Supplier

Attach fire flow test data for the hydrants

Failure to attach the fire flow test data and/or diagram may delay your project review.

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. Attach the fire flow test data @ 20 p.s.i. for the fire hydrants nearest to the development/project that must be used to determine available fire flow. Test data is to be completed within the previous 12 months or year. Identify the fire hydrants used to determine the 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 p.s.i. residual pressure, please list what the applicant/developer must do or obtain: _____

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

Contact phone/E-mail of Water Supplier: _____

Note: Based on the facts and circumstances, the Fire Chief may require the applicant/developer to engage an engineer⁵ 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 required, a State of Colorado Licensed Professional Engineer shall submit a complete stamped-seal report to the Grand Junction Fire Department. All necessary support documentation shall be included.

¹ There are three municipal water suppliers: Ute Water 970-242-7491, Clifton Water 970-434-7328, and City of Grand Junction Water 970-244-1572.

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

³ International Fire Code, 2012 Edition.

⁴ <http://www.gjcity.org/residents/public-safety/fire-department/fire-prevention-and-contractors/>

⁵ City Code defines engineer as one who is licensed as a P.E. by the state of Colorado.