

TACTICAL DECISION GAMES

Water!!!! Solution

Method for obtaining water for firefighting from the reservoir:

In order to retrieve water from the reservoir to your engine you will need some form of vacuum to suck the water, or force to push the water down to the engine.

With the complement I have on an engine I will apply the principle of the vacuum.

Needing something to transport the water from the reservoir to the engine I will set up my large diameter hose leading from the reservoir to the side intake on the engine (intake is closed).

I now need something to get the water flowing. I would take an 1 ½" discharge line up to the reservoir (attached to discharge outlet). Using the water in the engine and the water pump I would fill the large diameter hose using the 1 ½ " line. When water is needed in my engine I would open the intake valve to fill the engine water tank while someone sets the large diameter hose in the reservoir. Gravity will send the water that is in the large hose down to the engine. This action will leave a void in my hose that will be filled by water from the reservoir. I have now created a vacuum that will continue to flow until the flow is broken.

Materials needed:

Approx. 200 feet of large diameter hose

Approx. 200 feet of 1 ½ " hose

1 ½ " nozzle

Fire engine pump

Fire engine tank with enough water to fill large diameter hose

Fireman to pull hose

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