



Residential Fire Sprinkler System Burn Demonstration Trailer

Joint Apprenticeship Training Program of Sprinkler Fitters U.A. Local 821

By Greg Smith

The Joint Apprenticeship Training Program of Sprinkler Fitters U.A. Local 821 designed and built a residential system burn demonstration trailer. The purpose is hands-on training for apprentices, and to help get information out to private and public entities on the value and security of residential fire sprinkler systems.

Burn demonstrations have been held at the offices of Milton J. Wood Fire Protection in Jacksonville, Florida, for the Jacksonville Electric Authority, local fire marshals, and facility managers of area businesses. The training trailer was also demonstrated in Tallahassee, Florida, at the State Capitol Building for the annual Apprenticeship Day activities. Other activities that are planned for the burn trailer are at area high schools for career days and various job fairs around the state of Florida. The response to the demos has been very positive, with people being impressed by the rapid system activation once the fire has been ignited

inside the trailer and the door closed.

The burn trailer is set up with large viewing windows on three sides of the trailer. The burn area is set up as a small living room with furniture and tables, and features one horizontal residential sidewall sprinkler. The front section of the burn trailer contains a 100 gallon supply tank, pump, and controller with pressure and flow switches that activate strobe lights and electric audible alarms. The system is installed using all copper pipe and fittings.

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About the Author:

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